Deliverable 2.1

[D2.1 – AI and data literacy toolkit for facilitators including lessons, quizzes, materials, more in-depth material, videos, images, templates for reporting]



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Introduction

FREEYOU Next

FREEYOU Next builds on FREEYOU – a project funded by the Media Literacy for All Programme – and its main product: a blended multilingual educational format (and resources) for media and data literacy, targeted to teachers, educators, facilitators that work with youngsters.

Objectives

The project builds on an open platform that promotes an aware use of social media among youngsters, through innovative format with a focus over the following themes:

- 1. Fact-checking (social media verification, video/pictures authentication, source checking)
- 2. News distribution and amplification (filter bubbles, algorithmic filtering, viral content circulation)
- 3. Artificial intelligence (deep fake, synthetic media, etc)

Results

Planned activities, this toolkit, platform

How to use this toolkit

This toolkit is comprised of 2 courses that combine cutting edge tools in order to teach about data and media literacy. Both courses offer 2 hours of online, on-demand, materials that are devised into 1 hour of more theoretical thinking and 1 hour of practical applications. Both courses also offer 2 hours of live workshop where the theoretical and practical overlap by making your own creative appliance of the tools seen over the course. An introductory webinar serves as a more in depth guide on how to use this toolkit as well as a stepping stone into the 2 courses.

Program

Introductory webinar

During this webinar, we will introduce you to a wide range of tools, courses, and exercises that you can apply in the field of media and data literacy. The webinar lasts 2 hours and will focus on practicalities, including training, pilot programs, and events, followed by a gamified discussion on the impact of AI and Data in education using Mentimeter/Kahoot.

Course 1: A Data World: Synthetic Media analysis and production

On-Demand Session 1: "Living in a World Built on Data"

<u>(1 hour)</u>

Digital Footprints and Data Shadows Illustrate the vast web of data we produce and interact with daily. <u>The Dual Nature of Data</u> Showcase the pros and cons of a data-driven society. <u>The Rise of Synthetic Media</u> Provide a brief history and the evolution of deepfakes. <u>Implications of a Data-Driven Reality</u> Delve into societal and individual consequences of a world built on data. <u>Myths and Facts about Data and Deepfakes</u> Quiz to test understanding and reinforce key points from the session.

On-Demand Session 2: "Crafting & Deciphering Synthetic Imagery"

<u>(1 hour)</u>

A Peek into Deepfake Technology

Break down the technology behind deepfakes and synthetic media.

Tools of the Trade

Introduce various software and techniques to create and detect deepfakes.

Defending Against Deepfakes

Case studies of real-world incidents and how they were detected.

Artistic Endeavors with Deepfakes

Explore how artists and creators use synthetic media in their work.

Spot the Deepfake Activity

Challenge participants to discern between real images/videos and deepfakes.

Recap Quiz

Reinforce key points from the session.

Live Workshop: "Empowering Educators: Navigating Synthetic Media in the Classroom"

(2 hours)

Icebreaker: Deepfake or Real?

Begin with a fun activity where participants guess whether certain videos are real or manipulated.

Exploring the Toolkit

Hands-on demonstration of the digital toolkit. Guide through various tools and their applications.

Activity: Create Your Own

Teachers experiment with creating harmless deepfakes or synthetic media.

Discussion: Synthetic Media Ethics

Group discussion on the ethical considerations of synthetic media.

Curriculum Integration

Brainstorming on how to integrate lessons on synthetic media into various subjects.

Wrap-Up & Q&A

Reflect on the importance of media literacy in the age of deepfakes and answer any lingering questions.

Course 2: Chatbots in VR: The Wonders of Prompt Engineering

On-Demand Session 1: "Chatbots and new means of visualizing them"

(1 hour)

Chatting with chatbots

What are chatbots?

Have you ever seen a chat window pop-up that keeps asking you the same question every time you revisit a certain website? Odds are that's not a real person on the other end but a chatbot.



Chatbots, by definition are computer programs designed to simulate conversation with human users.

They can be used to communicate with people, answer common questions, and perform specific tasks they were programmed for. They gather and process information while interacting with the user and increase the level of personalization.

How are they made? How do their IIm work and what can they do?

Next up we'll look at how you can visualize chatbots in Virtual Reality (VR) and Mixed Reality (MR)

Mixed reality formats

Differences between VR/AR/MR.

How can VR/AR be used to visualize results?

<u>Short quiz</u>

Questions:

- What is a chatbot primarily designed for?
 a) Playing video games
 - b) Interacting with users through text or voice
 - c) Preparing coffee
- Which of the following is a common use case for chatbots? a) Grilling hamburgers
 - b) Assisting with customer support
 - c) Piloting an airplane
 - d) Solving complex mathematical equations
- Virtual Reality (VR) aims to:a) Augment the real world with digital elements
 - b) Create a completely immersive digital environment
 - c) Blend the real and digital worlds seamlessly
 - d) Enhance your smartphone's camera capabilities

- Augmented Reality (AR) technology:
 a) Replaces the real world with a computer-generated one
 - b) Adds digital content to the user's view of the real world
 - c) Allows users to interact with fictional characters
 - d) Encrypts messages in the real world
- Mixed Reality (MR) differs from AR and VR in that it:
 a) Combines both physical and digital elements, allowing interaction
 - b) Exclusively uses holograms
 - c) Provides users with a purely virtual experience
 - d) Can't be experienced with a headset

On-Demand Session 2: "Chatbots and new means of visualizing them"

(1 hour)

Talking with a chatbot

Showing some examples of existing chatbots and what they do/say.

Exercise 1: Ask a chatbot about yourself.

Comparing answers from chatbots

What different chatbots are out there and how do they differ from eachother? LLM's

Exercise 2: Ask the same question as in Exercise 1 to a different chatbot and compare the results.

Intro to Cospaces VR/AR

How can VR/AR be a medium for digital media

Exercise 3: Differentiate some examples of VR, AR and MR

Programming your own VR/AR world

How does Cospaces work?

Exercise 4: Recreate the dialog with the chatbots in Cospaces.





- You can lift the model

- You can scale the model



3. By right-clicking on your model you get a couple more options:



- Animate: choose a pre-made animation that your object plays continuously.
 Cada: Allows the abject to be used in cada.
- Code: Allows the object to be used in code
- Speech: Give your object speech/thought bubbles
 Physics: Choose how your object interacts with it's environment
- Transform: Move, rotate or scale your object
- Material: Choose the color and texture of your object
- Group: Make a composition of different object that act as one.
- Attach: Attach part of an object to another
- Mask: Subtract an object from an other
- Lock: Locks all editing features of that object
- Duplicate: Immediately makes a copy
- Delete: removes the object

Animate your world through code

1. To code models make sure to check the 'Use in CoBlocks' checkbox for every model you wish to animate through coding



Live Workshop: "Empowering Educators: Navigating Synthetic Media in the Classroom"

(2 hours)

Gamifying AI: Building Chatbots for CoSpaces Edu

Consists of:

- Introduction to Chatbots and their Relevance (15 mins)

What are chatbots and how do they function?

Importance and potential of chatbots and how to integrate in virtual reality

- Design Thinking for Chatbot Creation (15 mins)

User-centered design: Identifying the VR world's user needs and how a chatbot can address those

Crafting the personality of the chatbot: How will the characters in the VR world communicate? What's their backstory? What kind of tone or language will they use?

- CoSpaces Edu Integration (30 mins)

Demonstration: Showing a live example of a chatbot integrated into a CoSpaces Edu world

Walkthrough of user interactions

- Break (10 mins)

- Chatbot creation (30 mins)

Creation of the chatbot in Cospaces

Testing the interactions

Last improvements

- Showcasing results (20 mins)

Exchange of results and interactions with different chatbots

Tools and tutorials from the program (links and videos)

Synthetic AI (ChatGPT)

<u>ChatGPT</u>, which stands for Chat Generative Pre-trained Transformer, is a large language model-based chatbot developed by OpenAI, which enables users to refine and steer a conversation towards a desired length, format, style, level of detail, and language.

Chatbots (Chatterbot)

<u>ChatterBot</u> is a Python library that makes it easy to generate automated responses to a user's input. ChatterBot uses a selection of machine learning algorithms to produce different types of responses. This makes it easy for developers to create chat bots and automate conversations with users. For more details about the ideas and concepts behind ChatterBot see the process flow diagram.

VR/AR (Cospaces)

Virtual & augmented reality is a format that can visualise media in an immersive way. <u>CoSpaces</u> is a web-based program that can be used for educational purposes where teachers and students can collaborate on digital 3D-environments and learn to animate models through simple coding exercises.

Other resources (links)

LLM vizualisation (free)

Through <u>this</u> storytelling website, users can get an understanding of how deep neural networks analyse sentences and use it to formulate synthetic answers.

GPTZero (free)

<u>GPTZero</u> brings transparency to humans navigating a world filled with AI content. GPTZero is the gold standard in AI detection, trained to detect ChatGPT, GPT4, Bard, LLaMa, and other AI models.

DeepL (free)

Like most translation systems, <u>DeepL</u> Translator translates texts using artificial neural networks. These networks are trained on many millions of translated texts.

Midjourney

<u>Midjourney</u> is an example of generative AI that can convert natural language prompts into highquality images. It's only one of many machine learning-based image generators that have emerged of late. It relies on two relatively new machine learning technologies, namely large language models and diffusion models. You may already be familiar with the former if you've used generative AI chatbots like ChatGPT. A large language model first helps Midjourney understand the meaning of the words you type into your prompts. This is then converted into what is known as a vector, which you can imagine as a numerical version of your prompt. Finally, this vector helps guide another complex process known as diffusion.

D-ID

The <u>Creative Reality[™] Studio</u> by D-ID offers you the most robust set of generative AI tools to produce stunning videos featuring talking avatars. Combining the powers of D-ID's deep-learning face animation technology, GPT-3 text generation, and text-to-image capabilities, the self-service studio is the essential platform for those seeking to create amazing and cutting-edge videos.

Other applications (links & videos)

Creative/artistic applications

Data visualizations

Entangled Landscape by Studio Above&Below

<u>Entangled Landscape</u> is a meditative mixed reality experience augmenting invisible collaborative life of soil in the form of a digital sculpture. The artwork focuses on bringing visibility and awareness to the networks and exchange of resources occurring in soil at a microscopic level, investigating mutualistic and collaborative behaviour across different industries, natures and cultures.

Case studies

Glossary

1. **Algorithm:** A set of rules or instructions used by computers to perform specific tasks, such as data analysis or content recommendation.

2. **Bias:** Systematic and unfair preferences or prejudices that can be present in data, algorithms, or media content, leading to skewed perspectives or outcomes.

3. **Confirmation Bias:** The tendency to seek, interpret, and remember information that confirms one's existing beliefs while ignoring or discounting contradictory information.

4. **Data:** Raw facts and statistics collected and used for analysis or reference in various contexts.

5. **Digital Literacy:** The ability to find, evaluate, use, and create digital information and media content effectively and responsibly.

6. **Fake News:** False or misleading information presented as news, often spread through social media and other online platforms.

7. **Filter Bubble:** The idea that internet algorithms can create personalized online environments by showing users content that aligns with their existing preferences, potentially limiting exposure to diverse viewpoints.

8. **Hacking:** Unauthorized access, manipulation, or damage to computer systems, networks, or data.

9. **Information Literacy:** The ability to locate, evaluate, and effectively use information from various sources, especially in academic or research contexts.

10. ******Media Literacy:****** The ability to critically analyze, evaluate, and understand media messages, including those from television, radio, print, and digital sources.

11. **Misinformation:** False or inaccurate information spread without malicious intent.

12. ******Open Data:****** Data that is freely available for anyone to use, reuse, and redistribute, often with the goal of promoting transparency and accountability.

13. **Privacy:** The right to control one's personal information and data, including how it is collected, stored, and shared.

14. **Social Media:** Online platforms that enable users to create, share, and interact with content and other users.

15. **Stereotype:** A widely held but oversimplified and generalized belief or idea about a particular group of people or things.

16. **Transparency:** The practice of making processes, decisions, and information clear and easily accessible to the public.

17. **User-generated Content (UGC):** Content created and shared by users on online platforms, such as social media, forums, and wikis.

18. **Virality:** The rapid spread of content, often through social media, due to its popularity and shareability.

19. **Clickbait:** Sensational or misleading headlines and content designed to attract clicks and views.

20. **Fact-checking:** The process of verifying the accuracy and credibility of information and claims, often performed by journalists and researchers.

21. ******Data Visualization:****** The use of charts, graphs, and other visual representations to present data in a more understandable and meaningful way.

22. ******Ethical Journalism:****** Adherence to ethical principles and standards in news reporting, including accuracy, fairness, and objectivity.

23. **Digital Footprint:** The trail of digital information and data left behind by a person's online activities.

24. **Deepfake:** Artificially generated media, often using deep learning techniques, to create realistic but fake audio, video, or images.

25. **Net Neutrality:** The principle that internet service providers should treat all data on the internet equally, without discrimination or preference for specific content or services.

26. **Chatbots:** a computer program designed to simulate conversation with human users, especially over the internet.

27. **Large Language Model (LLM):** A large language model (LLM) is a type of artificial intelligence (AI) algorithm that uses deep learning techniques and massively large data sets to understand, summarize, generate and predict new content. The term generative AI also is closely connected with

LLMs, which are, in fact, a type of generative AI that has been specifically architected to help generate text-based content.

28. ** Artificial Inteligence (AI):** An area of study concerned with making computers copy intelligent human behavior

QR code to telegram group for teachers

(for feedback)

Course 1

[A Data World: Synthetic Media analysis and production]







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MODULE 1.1 DATA: Living in a World Built on Data

Course Introduction:

The ecosystem of over-information in which we are immersed requires a great ability to discern accurate data from distorted or misleading ones. Today, more than ever, data is of unprecedented importance, which is why even data (sometimes) lies.

Knowing how to verify the reliability of a data collection is a fundamental skill for interpreting the complexity of the world around us.

In this course, we will see together:

✓ How to distinguish accurate data from unverified or manipulated data.

✓ Strategies for identifying biases and prejudices in data.

 \checkmark How to create ethically and scientifically reliable data collections.

UNITY 1 - If data says so...

TITLE: If data says so...

What it is about: **Our world is written in the form of data, whether reliable or manipulated. But how do we verify data? What do we have to watch out for when it comes to interpreting data?**

QUIZ

- A. Which data collection is most likely to be unreliable? (choose the most complete answer)
 A data collection created with only qualitative data
- B. A data collection created by a third party whose interests are the subject of the survey
- C. A data collection created with quantitative data only

Explanation: A data collection whose source pursues a partisan interest is likely to be unreliable. In this sense, one thinks of the 'data' published by the big tobacco corporations in the post-war period that 'proved' that smoking did not cause any disease.

2) Can data help us overcome our prejudices? (choose the correct answer). Choose only ONE best answer.

- A. No, data are only useful for science
- B. Yes, data are always true and can guide us in our choices
- C. Yes, data can help us change our perception which can sometimes be fallacious

Explanation: The correct answer is 'C'. Our perception of some phenomena is imperfect and fallacious and data can help us overcome this flaw.

UNITY 2 - WHY DATA

What it is about: the value of data is structurally linked to the source from which it comes. In this lesson, we will look at how to verify sources and how sources can influence the narrative that data make of our world.

QUIZ

1) Which of these sources is NOT an official source? (choose the correct answer). Choose only ONE best answer.

- A. Istat
- B. Melarossa
- C. Eurostat

Explanation: Melarossa is an application that collects data from its users so it cannot be considered an official source

2) Which of these sites is an aggregator? Choose only ONE best answer.

- A. World Bank
- B. OMS
- C. WikiData

Explanation: WikiData is an aggregator. An aggregator is defined as those entities that collect a large amount of data from different sources.

Unit 3 – the TAG method

What is it about: How does the TAG method work for data management?

Now it's your turn

QUESTION 1 OF 1

What does the acronym TAG stand for? (choose the most complete answer). Choose only THE best answer (one).

- A. Find the source, Analyze the content, and Look around.
- B. Find the source, Analyze the content, and Manage the data
- C. Find the source, Associate the data, and Look around

CONFIRM: The TAG method invites us to Find the source, Analyze the content, and Look around. This method of analysis allows us not to be fooled by news that is only seemingly truthful.

Unit 4 - Case study 1 - The 35 euros for the reception of refugees

Video duration: 06:35 Tools used: applying the TAG method What it's about: In this lesson we look together at an example of how we can apply the TAG method to a news story. Slide: download here

Now it's your turn

QUESTION 1 OF 1

Why can it be useful to research the sources used to write an article? (choose the most complete answer). Choose only THE best answer (one).

- A. Because the person who wrote it may have misunderstood the data
- B. Because the newspaper that reported the article may have a "biased" editorial line
- C. Because the newspaper reporting the news may have chosen to report biased news related to the data so as to create "scandal" in public opinion

CONFIRM: Seeking out the sources from which the data used in an article were extracted is a good practice to use when we believe we are faced with the instrumentalization of a piece of data.

Module 1.2

Synthetic Media – Crafting & Deciphering Synthetic Imagery

Course Introduction

Title: What will we talk about in this course?

Let's kick off the journey into Synthetic Media!

Synthetic media is transforming how we create and consume digital content. This technology enables the generation of images, videos, and audio in an entirely new way, opening the doors to unprecedented forms of creativity and communication.

However, with this innovation comes the need for a profound understanding of how these synthetic media operate and the ethical implications they carry. The data used to train the models deeply influences the outcomes, prompting a critical reflection on their reliability and, more importantly, the value of what they produce.

In this course, we will explore together:

✓ How to identify whether content is artificially generated

 \checkmark The artistic value of synthetic works

✓ We will put our new skills into practice, using tools to create synthetic media

2. Course Guide

We have prepared a guide with all the relevant information for this training program: dates, links, and support addresses.

UNITY 1 What are synthetic media

Title: What are synthetic media

VIDEO

Video duration: 6:13

What's it about: By now, synthetic media are everywhere. From news sites to advertisements, artificially generated media have made their way into our everyday lives. In this lecture we will see:

- What is meant by synthetic media
- How media have evolved over time
- How many kinds of artificial content exist today

Now it's your turn - QUIZ

Question 1: Synthetic media are...

- A. Digital content created by AI
- B. Digital content created in a short timeframe
- C. Al-generated information videos

Explanation: Synthetic media (video, audio, images and text) are media generated by artificial intelligence (AI) that manages all (or part) of the creative process.

Question 2 : Who is Lil Miquela? (choose the correct answer). Choose only ONE best answer.

- A. An influencer who talks about the creative potential of AI
- B. An influencer, dealing with synthetic media in the field of music
- C. A project, it is a virtual avatar created by a team of professionals in special effects.

UNITY 2 - FROM TEXT TO...

Title: From text to...

What it's about: What does it mean when we talk about artificial intelligence "text to..."? What are the stages that allow transforming a description into an image? Let's discover it together!

QUIZ:

"What is latent space? Choose only ONE best answer.

- A. The phase in which you think about the prompt to insert to obtain the desired image.
- B. A bridge between textual descriptions and visual images.

Explanation: Latent space is the place where the representation is generated following the training phase of the AI model. This representation is a kind of summary of essential features of both text and images. In this sense, we can think of latent space as a bridge between textual descriptions and visual images that allows the model to generalize from text to image.

UNITY 3 - TOOLS FOR CREATING SYNTHETIC MEDIA

Title: Tools for creating synthetic media

What it's about: what tools make up the AI ecosystem to date? Let's look together at some examples

QUIZ:

To generate an image artificially, you should use... (Choose only ONE best answer)

- A. Dream Studio by Stable Diffusion
- B. Google Bard
- C. ChatGPT

Explanation: To generate a synthetic image from a textual prompt, the most suitable tool is certainly Dream Studio from the open source tool Stable Diffusion.

UNITY 4 - USES AND ABUSES

Uses and Abuses

What it's about: How does creativity evolve with the advent of AI? In the era of ultimate reproducibility, we explore the transformation of visual arts and the crisis of the concept of artistic originality through technology.

Quiz

1) Who were the Belamy? Choose only ONE best answer.

- A. An imaginary family within a novel generated by Open AI
- B. An 18th century French family whose portraits were artificially generated and sold at auction
- C. An imaginary family invented by the French collective Obvious to create a collection of AI-generated portraits.

Explanation: The correct answer is 'C'

The Belamy family is an imaginary family created by French collective Obvious to create a collection of AI-generated portraits. The painting depicting Edmond de Belamy was sold at auction by Christie's for an estimated \$432,500 in 2018.

2) Is generative artificial intelligence being used to polarize public opinion? Choose only ONE best answer.

- A. Yes, the abuse of AI is sadly common. Especially when conflict breaks out, the use of AI tools for propaganda purposes is commonplace.
- B. No, the use of AI is strictly regulated when it comes to politics and public opinion.

Explanation: Unfortunately, the misuse of AI tools for propaganda purposes is very frequent. Today, despite European directives, it is very

difficult to limit the spread of false content generated to polarise public opinion.

UNITY 5 - How to analyze AI-generated media

What it's about: artificial intelligence tools are becoming more refined every day, yet AI still leaves traces. In this lesson, we learn what to look at to see if we are dealing with synthetic media.

Quiz:

1) To spot a synthetic media, what is most useful to check? (Choose the most complete answer). Choose only ONE best answer.

- A. Cartoon style details and glassy eyes
- B. Facial details, movements, background elements and possible glitches
- C. Hand and background distortions

Explanation: The correct answer is 'B'

If we are uncertain about the nature of an image, it is useful to first observe these elements: facial details, movements, background elements and possible glitches.

2) Which of these tools are capable of assessing the likelihood of an image being artificially generated? Choose only ONE best answer.

- A. Stable Attribution, Deepware and InVID
- B. Google, InVID and Slack
- C. Google Bard, InVID and Deepware

Explanation: The correct answer is 'A'

The most suitable tools for assessing the authenticity or otherwise of an image are: Stable Attribution, Deepware and InVID. Beware however, 'AI Detectors' are still imprecise tools and can still lead us into error.



[Chatbots in VR: The Wonders Of Prompt Engineering]





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MODULE 2.1 Chatbots and new means of visualizing them

Course Introduction:

Have you ever seen a chat window pop-up that keeps asking you the same question every time you revisit a certain website? Odds are that's not a real person on the other end but a chatbot. Chatbots, by definition are computer programs designed to simulate conversation with human users. They can be used to communicate with people, answer common questions, and perform specific tasks they were programmed for. They gather and process information while interacting with the user and increase the level of personalization.

In this course, we will see together:

✓ How do chatbots work.

✓ How to make one yourself.

 \checkmark How to visualize them in new innovative formats.

UNIT 1 - What do the bots say...

TITLE: What do the bots say...

What it is about: More and more people interact with nonhuman algorithms everyday. What are these programs used for and how do they work? Can they really simulate real conversations?

QUIZ

- 1. What is a chatbot primarily designed for?
- A. To connect you with people online to chat with
- B. To interact with users through text or voice
- C. For automations

Explanation: Chatbots, by definition are computer programs designed to simulate conversation with human users. They can be used to communicate with people, answer common questions, and perform specific tasks they were programmed for. They gather and process

information while interacting with the user and increase the level of personalization.

2) When training a chatbot, which of the following factors is crucial for reducing bias in its responses? (choose the correct answer). Choose only ONE best answer.

- A. Utilizing a diverse dataset.
- B. Increasing the model's processing speed.
- C. Incorporating complex language patterns.

Explanation: The correct answer is 'A' because incorporating a diverse dataset helps mitigate bias by exposing the model to a wide range of perspectives and language nuances, reducing the likelihood of skewed or discriminatory responses.

UNIT 2 - How they talk

What it is about: Natural Language Processing (NLP) is a branch of artificial intelligence that focuses on enabling computers to understand, interpret, and generate human language, allowing machines to interact with users in a more natural and meaningful way.

QUIZ

1) What is the primary goal of Natural Language Processing (NLP)?

A. Enhancing computer processing speed.

B. Enabling computers to understand, interpret, and generate human language.

C. Improving hardware performance for language-related tasks.

Explanation: B is the most correct answer because it accurately captures the primary goal of Natural Language Processing (NLP). NLP is focused on empowering computers to comprehend and work with human language, allowing them to process, interpret, and generate text in a way that facilitates meaningful interaction with users.

2) Which of the following industries has prominently adopted chatbots and Natural Language Processing (NLP) to enhance customer interactions and streamline processes? Choose only ONE best answer.

A. Agriculture

B. Healthcare

C. Textile Manufacturing

Explanation: In the healthcare industry, chatbots and NLP technologies are widely used to facilitate patient engagement, appointment scheduling, and symptom analysis.

Unit 3 – The next word in a sentence

What is it about: In this section we'll device into how a chatbot works. An oversimplified explanation of a chatbot is a program that can predict the next word in a sentence and formulate it in a given context. They do this with the help of Semantic Role Labeling (SRL) in NLP.

Now it's your turn

QUESTION 1 OF 1

In NLP, what does Semantic Role Labeling (SRL) aim to identify? Choose only THE best answer (one).

- A. The sentiment of a text.
- B. The relationships between words and their roles in a sentence.
- C. The grammatical structure of a paragraph.

CONFIRM: While option c refers to a relevant aspect of NLP (word frequency analysis), it doesn't specifically capture the primary goal of Semantic Role Labeling, which is to identify the relationships between words and their roles in a sentence.

Module 2.2

Digital Medias – New Realities

Course Introduction

The advent of Virtual Reality (VR), Augmented Reality (AR), and Mixed Reality (MR) represents a transformative era in technology, altering how we engage with the digital realm. VR immerses users in simulated environments, AR overlays digital information onto the real world, and MR seamlessly combines elements of both. Beyond entertainment, these technologies find applications in education, healthcare, and various industries, promising to redefine and enhance our daily experiences in a digitally interconnected world.

In this course, we will explore together:

✓ The difference between VR / AR / MR

 \checkmark The artistic value of these digital media

✓ We will put our new skills into practice, using tools to create immersive media

1. Course Guide

We have prepared a guide with all the relevant information for this training program: dates, links, and support addresses.

UNIT 1 Fully immersed in VR

What's it about: Virtual Reality (VR) is a computer-generated simulation that immerses users in a synthetic, interactive environment, providing a sense of presence and engagement. In this lecture we will see:

- What does it mean to be fully immersed
- How media have evolved over time
- How many kinds of artificial content exist today

Now it's your turn - QUIZ

Question 1: What distinguishes VR from traditional 3D technology?

A. The use of head-mounted displays.

- B. Integration of surround sound systems.
- C. Enhanced color saturation in visuals.

Explanation: Virtual Reality (VR) is distinguished from traditional 3D technology by the use of head-mounted displays, which immerse users in a fully immersive, interactive environment rather than relying on flat screens for visual representation.

Question 2 : Which component is crucial for tracking the user's movement in VR?

- A. Haptic feedback gloves.
- B. External cameras or sensors.
- C. High-resolution display screens.

Explanation: because external cameras or sensors are crucial for tracking the user's movement in Virtual Reality (VR), enabling the system to monitor and respond to the user's position in real-time, contributing to a more immersive and interactive experience.

UNIT 2 - Exploring the Augmented Reality

What it's about: Augmented Reality (AR) is a technology that overlays digital information, such as images, videos, or data, onto the real-world environment, enhancing users' perception and interaction with their surroundings. Unlike Virtual Reality (VR), AR does not immerse users in a completely computer-generated environment but rather enhances the existing environment by integrating digital elements.

QUIZ:

What distinguishes Augmented Reality (AR) from Virtual Reality (VR)? Choose only ONE best answer.

- A. AR immerses users in entirely computer-generated environments.
- B. AR overlays digital content onto the real-world environment.
- C. AR requires the use of haptic feedback gloves for interaction.

Explanation: Augmented Reality enhances the real-world view by adding digital elements, providing an enriched and context-aware user experience.

Which technology is commonly used for markerless tracking in AR applications? Choose only ONE best answer.

- A. GPS (Global Positioning System).
- B. QR codes.

C. Object recognition and computer vision.

Explanation: Markerless tracking in AR applications often involves object recognition and computer vision technologies to identify and track real-world objects.

UNIT 3 - Mixing in MR

What it's about: Mixed Reality (MR) represents a cutting-edge technology that seamlessly blends the physical and digital worlds, creating a unified and interactive environment where virtual elements coexist with the real world. Unlike Virtual Reality (VR) or Augmented Reality (AR) in isolation, MR integrates both, allowing users to engage with and manipulate digital content while interacting with their physical surroundings. This transformative technology opens new avenues for immersive experiences, interactive simulations, and innovative applications across various industries, promising a future where the boundaries between the real and virtual are dynamically redefined.

QUIZ:

What distinguishes Mixed Reality (MR) from Virtual Reality (VR) and Augmented Reality (AR)? (Choose only ONE best answer)

A. MR only uses computer-generated simulations.

B. MR seamlessly integrates digital and physical elements in the user's environment.

C. MR exclusively relies on augmented visuals.

Explanation: Mixed Reality (MR) stands out by seamlessly integrating digital and physical elements, allowing users to interact with computer-generated content in the real-world environment, distinguishing it from both Virtual Reality (VR) and Augmented Reality (AR).

In the context of Mixed Reality (MR), what is the term used to describe the digital objects anchored to the real-world environment? (Choose only ONE best answer)

- A. Virtual overlays.
- B. Augmented elements.
- C. Holographic content.

Explanation: The term "holographic content" is used to describe digital objects anchored to the real-world environment, emphasizing the immersive and interactive nature of the digital overlays.

How does Mixed Reality (MR) differ from Augmented Reality (AR) regarding the interaction with digital objects?

A. MR allows users to only view but not interact with digital objects.

B. MR enables users to interact and manipulate digital objects in the real-world space.

C. AR and MR have similar interaction capabilities.

Explanation: Unlike Augmented Reality (AR), Mixed Reality (MR) empowers users to not only view but also interact and manipulate digital objects within the real-world surroundings, providing a more dynamic and engaging experience.
VIDEO FREEYOU NEXT:

COURSE 1 MODULO 1.1: https://youtu.be/PNfHbAm1cQo?si=5qOfzmfdaoqGUCI-

MODULO 1.2: https://youtu.be/tB3i9u9o91M?si=ndn8ESghvx28fNDj

COURSE 2 MODULO 2.1

MODULO 2.2

https://drive.google.com/drive/folders/189pF1XeXNTPpTrDBTF5yarHe0W O-R-mx





COURSE 1



Living in a World Built on Data



Co-funded by the European Union

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PART 1 A brief history of data-collection













DATA HAVE BEEN COLLECTED SINCE... FOREVER

Data have always been used to give humans a more precise idea of complex phenomena.







1606. A TABLE of the CHRISTENINGS and MORTALITY For the Year 1605 and 1606.* Por the Tear Toos and Toos." Weeks. Days of the Chrift. Bar. Pin. Par. Moeth. 1 Decc. 26. 100. 116 5 2 January 2. 117 151 6 3 9. 130. 138 4 30 4 10. 114 138 2 31 24. 96 100. 25 12 5 2.3 143 121 6 4 32 31. 324 175 146 50. 22 5 2.3. 143 121 6 4 32 31. 324 196 66. 29 7 Febr. 6. 122, 105 5 5 34 14. 141 197 75 33 9 20. 126 126 69 35 21. 131 181 67 29 10 7 Febr. 6. 110 98 7 31 31 195 58 29 10 7. 134 133 14 14 14. 141 197 75 33 14 27. 142 117 9 8 37 Septerm. + 1.32 24. 116 3 The Totals Chriftened ______ 6614 Buried ______ 7920 Whereof of the Plague 2124 " BELL's London's Remembrancer. ATABLE Digitized by Gougle









DIAGRAM OF THE CAUSES OF MORTALITY 1. IN THE ARMY IN THE EAST. APRIL 1854 TO MARCH 1855. JULY JUNE SEPTEMBER APRIL 1854 CRIMEA OCTOR 1855. MARCH HERNSNOT The Areas of the blue, red, & black wedges are each measured from

JANUARY 1855

DECEMBER

- THER THEFT the centre as the common vertex. The blue wedges measured from the centre of the circle represent area for area the deaths from Preventible or Mitigable Zymotic diseases, the red wedges measured from the centre the deaths from wounds; & the black wedges measured from the centre the deaths from all other causes. The black line acress the red triangle in Nov? 1854 marks the boundary of the deaths from all other causes during the month.
- In October 1854, & April 1855, the black area coincides with the red; in January & February 1856, the blue coincides with the black. The entire areas may be compared by following the blue, the red & the black lines enclosing them

2.

UNE

TENNER

9581 SEAL ARNUAR ASEMBO30

APRIL 1855 TO MARCH 1856.

JULY







BEFORE THE INTERNET

18000 BC: Ishango bone1663: John Graunt's mortality rates1786: William Playfair's standard charts1859: Florence Nightingale's visualisations1960: Supercomputers



BEFORE THE INTERNET

AFTER THE INTERNET

18000 BC: Ishango bone1663: John Graunt's mortality rates1786: William Playfair's standard charts1859: Florence Nightingale's visualisations1960: Supercomputers













Cambridge Analytica











BEFORE THE INTERNET

AFTER THE INTERNET

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BEFORE THE INTERNET

18000 BC: Ishango bone1663: John Graunt's mortality rates1786: William Playfair's standard charts1859: Florence Nightingale's visualisations1960: Supercomputers

AFTER THE INTERNET

2009: Open Data 2014: Self-tracking 2018: Cambridge Analytica 2020: Infodemic 2023: ChatGPT





PART 2 Diving into data





DATA HELP US UNDERSTAND THE WORLD WE LIVE IN

Data have always been used to give us a more precise idea of complex phenomena.

In the digital age, they are also increasingly used to give more reliability to information exchanges.





Source: Mona Chalabi



ÉCONOMIE - INFLATION

L'inflation a ralenti en 2023 : la hausse des prix s'est établie à 4,9 %, après 5,2 % en 2022

La hausse des prix de l'alimentation se poursuit mais à un rythme moindre, tandis que certains prix de l'énergie ont décru lors de l'année écoulée, détaille l'Insee vendredi.

Le Monde avec AFP Publié aujourd'hui à 09h03, modifié à 09h52 · Ō Lecture 2 min.

🗍 Ajouter à vos sélections 🛛 🛱

U.S. Economy Grew at 2.4% Rate in Second Quarter

The reading on gross domestic product was bolstered by consumer spending, showing that recession forecasts early in the year were premature, at least.

30%								
20	Real g Quarter adjuste	gross dor rly change a d for inflatio	nestic p t annual ra n	roduct ates,				
10								2nd qtr. 2023:
		the second se						
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-10	un ga			5	Alant.		lil _e ine	← +2.4%
-10 -20 -30	up da	ų Uliu J		8. 5.80	dint.		hi _n ina	← +2.4%





Source: Mona Chalabi









DATA HELP US BECAUSE OUR PERCEPTION OFTEN FAILS US

Our perception is not well suited to get a grasp of some complex aspects of reality.







Respondents across the EU tend to overestimate the proportion of immigrants in their countries in some cases significantly while around three in ten do not know

Special Eurobarometer Dec 2021



Respondents across the EU tend to <u>overestimate</u> the proportion of immigrants in their countries in some cases significantly while around three in ten do not know

Special Eurobarometer Dec 2021











DATA HELPS US OVERCOME OUR COGNITIVE 'BIASES'

Our perception is negatively impacted by a good number of cognitive biases. Data can help us limit their effect.

Rosy retrospection Anecdotal evidence Confirmation bias False consensus effect

. . .





SO, DATA ARE GOOD AND HELP US BUT...





SO, DATA ARE GOOD AND HELP US BUT...

... only if they are used correctly and, above all, if we know how to read them critically.



«Without knowing the source and context, a given statistic is useless. However, numbers and statistics appear rigorous and reliable simply because they show quantities and because of their tendency to spread....»

Carl T. Bergstrom, Jevin West "Calling Bullshit: The Art of Skepticism in a Data-Driven World"




PART 3 3 questions to ask about data

DATA LITERACY





1) What about the source?

DATA LITERACY





What about the source?

Just like every other piece of information a good first step to critically evaluate data is to check the source that has produced or shared them.



DATA LITERACY

Press Releases

New report: 2020 was another good year for polar bears

Date: 26/02/21 | Press Release, Global Warming Policy Foundation

London, 26 February: A prominent Canadian zoologist says that Facebook's polar bear claims are gravely out of date and 2020 was another good year for polar bears.



In the State of the Polar Bear Report 2020, published by the Global Warming Policy Foundation (GWPF) to coincide with International Polar Bear Day (27 February), zoologist Dr. Susan Crockford explains that while the climate narrative insists that polar bear populations are declining due to reduced sea ice, population surveys and the scientific literature don't support such a conclusion.

Crockford clarifies that the IUCN's 2015 Red List assessment for polar bears, which Facebook uses as an authority for 'fact checking', is seriously out of date. New and compelling evidence shows that bears in regions with profound summer ice loss are doing well.

Are polar bears going extinct due to climate change?

According to this "study" published by a group called the *Global Warming Policy Foundation*, they are doing just fine.

Should we trust this information?



The reaction was swift and fierce. A post on <u>Climate Audit</u>, a blog popular with climate skeptics, called the article "a hit piece" and dismissed it as "yet another piece of propaganda to push a Climate Change agenda." The Global Warming Policy Foundation, a profossil fuel think tank in Britain that has published briefing papers by Dr. Crockford, <u>chimed in</u> with the headline, "14 Climate Bullies Attack Susan Crockford for Telling the Truth About Polar Bears."

...Upon further research, we find that, despite its name, the Global Warming Foundation is a "pro-fossil fuel think tank."

As such, it has a significant interest in denying the effects of the climate crisis.

Does that necessarily mean that what they say is false? No, but it means we have to be even more careful in evaluating what they say on the subject.



Unsettled Science

Knowing that weather forecasts are reliable for a few days at best, we should recognize the enormous climate scientists predict that lower atmospheric challenge facing scientists seeking to predict climate change and its impact over the next century in spite atures at the surface. However, only within the last 20 of everyone's desire for clear answers it is not surprising that fundamental gaps in knowledge leave scientists unable to make reliable predictions about the use of satellite technology. These measurements future changes

A recent report from the National Research Council (NRC) raises important issues, including or negative impacts of climate change. In fact, these still-unanswered questions (1) Has human acmany academic studies and field experiments have tivity already begun to change temperature and the demonstrated that increased levels of carbon climate, and (2) How significant

will future change be? The NRC report confirms 7 that Earth's surface temperature has risen by about 1 degree Fahrenheit over the past 150 years Some use this result to claim that humans are causing clobal warming, and they point to torms or floods to say that danperous impacts are already under way Yet scientists remain unable to confirm either contention Geological evidence indi-

cates that climate and greenhouse gas levels experience

ing to do with human activity. Historical records and Natural variability and human activity may lead to clicurrent scientific evidence show that Europe and North America experienced a medieval warm period both positive and negative. Consequently, people, one thousand years ago, followed centuries later by a companies and governments should take responsible Ittle ice age The geological record shows even larger actions now to address the issue changes throughout Earth's history Against this backdrop of large poorly understood natural variabiity, it is impossible for scientists to attribute the recent small surface temperature increase to human causes

1000 500



show little if any warming

500 1000 1500 2000 to address the long-term Science has given us enough information to know

what actions may be desirable

Moreover, computer models relied upon by

temperatures will rise as fast as or faster than temper-

years have reliable global measurements of tempera-

tures in the lower atmosphere been available through

Even less is known about the potential positive

significant natural variability for reasons having noth- that climate changes may pose long-term risks mate chance that could be significant and perhaps

One essential step is to encourage development of lower-emission technologies to meet our future needs for energy. We'll next look at the promise of technology and what is being done today

Ex_conMobil

Is climate change science still "unsettled"?

Sometimes, seemingly reasonable and sensible claims supported by data should be approached with caution because the source has vested interest in a claim.

This is the case with an "advertorial" appeared in *The New York Times* in March 2000, discussing "Unsettled Science" regarding climate change.





There is also a chart showing the temperature trend in the Sargasso Sea over the last 3000 years, which aims to show that the trend is oscillating, and therefore there is no upward temperature trend.



The New Hork Times "All the News That's Fit to Print NEW YORK, PRIDAY, JUNE 24, VOL.CXXXVII ... No. 47,545 An Impact Lasting Centuries Global Warming Has Begun, Expert Tells Senate Dr. Hansen, a leading expert on climate change, said in an interview that there was no "magic number" that showed when the greenhouse effect Sharp Cut in Burning of was actually starting to cause changes in climate and weather. But he added, Fossil Fuels Is Urged to 'It is time to stop waffling so much and say that the evidence is pretty strong that the greenhouse effect is here." 59. **Battle Shift in Climate** If Dr. Hansen and other scientists are correct, then humans, by burning of fossil fuels and other activities, have By PHILIP SHABECOFF 607 altered the global climate in a manner WASHINGTON, June 23 - The earth that will affect life on earth for cepbas been warmer in the first five months of this year than in any com-parable period since measurements turies to come. Dr. Hansen, director of NASA's Institute for Space Studies in Manhattan, testifed before the Senate Energy and began 130 years ago, and the higher temperatures can now be attributed to a long-expected global warming trend Natural Resources Committee linked to pollution, a space agency scientist reported today. Some Dispute Link He and other scientists testifying he-Unil news, scientists have been cau-tious about attributing rising global temperatures of recent years to the predicted global warming caused by pollutants in the atmosphere, known as fore the Senate panel today said that projections of the climate change that 57 is now apparently occurring mean that the Southeastern and Midwestern sec-880 1690 1900 1910 1920 1930 1940 1950 1960 1970 1980 86 tions of the United States will be subthe "greenhouse effect." But today Dr. James E. Hansen of the National Aero-**Global Warming: Greenhouse Effect?** ject to frequent episodes of very high temperatures and drought in the next Average global temperatures through the first five months of 1988. As a baseline, scientists use the global average from 1950 to 1980. nautics and Space Administration told decade and beyond. But they cautioned a Congressional committee that it was that it was not possible to attribute a 99 percent certain that the warming trend was not a natural variation but was caused by a buildup of carbon dioxide and other artificial gases in the Source: James E. Hansen and Sorgej Lebedett specific heat wave to the greenhouse effect, given the still limited state of Continued on Page A14, Column 3 atmosphere

In reality, at the time, there was already a solid consensus among scientists on "global warming," as evidenced by this *New York Times* front page from 1988 (2 years earlier).



CLIMATE CHANGE

Exxon Knew about Climate Change almost 40 years ago

A new investigation shows the oil company understood the science before it became a public issue and spent millions to promote misinformation

By Shannon Hall on October 26, 2015

Exxon Scientists Predicted Global Warming, Even as Company Cast Doubts, Study Finds

Starting in the 1970s, scientists working for the oil giant made remarkably accurate projections of just how much burning fossil fuels would warm the planet. And, as document revelations showed, the same oil industries, including Exxon, the author of the advertorial we started from, were well aware of the risks of continuous CO2 emissions from human activities into the atmosphere at least since the mid-1970s.





2) Are the data correct?

DATA LITERACY



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Home > Crona	ica	
IL DOSSIER		
S CONTENUT	D PER GLI ABBONATI PREMIUM	

Vacanze, ecco perché gli italiani scelgono l'Albania: dai lettini alle cene al soggiorno prezzi più bassi anche del 250%

Per dormire 7 notti in una delle località di mare più note dell'Albania, dal 21 al 28 agosto in camera doppia, la spesa minima parte dai 175 euro a Valona fino ad arrivare ai 420 euro di Qeparo

2) ARE THE DATA CORRECT?

In journalism, headlines are important. Often readers read those only. And for many readers of the Italian newspaper "La Stampa", discovering that in Albania, summer holidays may cost "up to 250%" less than in Italy can be a pleasant surprise.

But perhaps that's too good to be true, isn't it?



La Stampa < @LaStampa · 1g</p> Vacanze, ecco perché gli italiani scelgono

l'Albania: dai lettini alle cene al soggiorno prezzi più bassi anche del 250% dlvr.it/StXxOM

I lettori hanno aggiunto informazioni contestuali

È impossibile in matematica che una vacanza costi il 250% in meno perché il risparmio supererebbe di gran lunga l'investimento...

Mostra questa nota

2) ARE THE DATA CORRECT?

As many Twitter users pointed out in response to the article, saying that something could cost 250% less is misleading and incorrect: if that would be the case case, in fact, the price would be negative.

In general, percentages should always be handled with care, especially when used to make comparisons. And, consequently, should always be evaluated with extra care.





3) How were the data collected?

DATA LITERACY





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3) HOW WERE THE DATA COLLECTED?

It is important to understand how a piece of data is collected or processed.



For young Alphonso Davies, a fantastic year continues. On Wednesday, just in time for the Bundesliga start. Transfermarkt updated the market values of 159 players in Germany's top flight. Among them, Davies, the 19-year-old Canadian, saw his market value grow by €20 million (\$22 million) and is now worth €80 million (\$88 million).

The Canadian is one of eight Bayern Munich players to see his market value updated. Among them were Serge Gnabry (\$99 million), Joshua Kimmich (\$93.5m), Robert Lewandowski (\$66M), Thomas Müller (\$38.5m), and Manuel Neuer (\$19.8m). Those five, together with Davies, spearheaded Bayern's success in the Champions League was the Munich-based club became the first team in history to win every game on the way to the title.

3) HOW WERE THE DATA COLLECTED?

It is important to understand how a piece of data is collected or processed.

For example: how are market evaluations of football players reported by the popular Transfermarkt website collected?



The goal is not to predict a price but an expected value of a player in a free market. Both individual transfer modalities and situational conditions are relevant in determining market values. Examples of this are listed below. Transfermarkt does not use an algorithm but instead relies on the wisdom of the community.

3) HOW WERE THE DATA COLLECTED?

Many people think Transfermark's "market evaluation" data are produced by an algorithm.

However, looking for more information, we find out that for those data Transfermarkt relies on the so called "wisdom of the community".

Is that wrong? Not necessarily, but it is a piece of information that it is useful to know in order to evaluate the data we are using and sharing and using them correctly.





PART 4 Data verification

DATA LITERACY





A 3-step process:

- **1 Find the sources**
- 2 Analyze the content
- 3 Look around





CASE STUDY:

Italy, 35 euros for hosting refugees





35 EUROS FOR REFUGEES?

This headline appeared on the front page of the Italian newspaper "Libero" on November 30, 2016.

It says: "€35 to refugees, just €25 to earthquake victims"

But are things really as the headline suggests? Let's try to verify.



Aggiornamento provvidenze economiche

1. Le provvidenze economiche spettanti ai profughi italiani e loro familiari a carico, di cui all'art. 5 della citata legge n. 763/1981, cosi' come modificato dall'art. 2 della legge 15 ottobre 1991, n. 344, aggiornate alla variazione dell'indice dei prezzi al consumo della famiglie di operai ed impiegati, sono determinate nei seguenti importi:

a) indennita' di sistemazione "una tantum" pari a € 3.555,29;

 b) contributo straordinario pro capite giornaliero per un periodo massimo di sei mesi pari a € 35,56.

2. La spesa conseguente all'attuazione del presente decreto e' imputata al capitolo 2351, del bilancio del Ministero dell'interno -Dipartimento liberta' civili e immigrazione - Esercizio finanziario 2013.

Il presente decreto entra in vigore il giorno stesso della data di pubblicazione nella Gazzetta Ufficiale della Repubblica italiana.

Roma, 24 aprile 2013

Il Ministro dell'interno Cancellieri

Il Ministro dell'economia e delle finanze Grilli

FIND THE SOURCE

The first primary source to trace to verify the data is the Italian Official Gazette (OG), where Italy's new laws are published. In 2013 the OG reported the decision of the Ministry of the Internal Affair to set the daily contribution for refugees at €35.56.



FIND THE SOURCE

b) contributo straordinario pro capite giornaliero per un periodo massimo di sei mesi pari a € 35,56.

b) Extraordinary per capita daily contribution for a maximum period of 6 months amounting to 35.56 euros



Prefetura Treviso Prot. Uscita del 07/07/2014 Numero 0044449 Classifica 169.02

PROCEDURA DI GARA APERTA VOLTA ALLA CONCLUSIONE DI UN ACCORDO QUADRO CON PIÙ SOGGETTI OPERANTI IN PROVINCIA DI TREVISO, I QUALI DOVRANNO ASSICURARE I SERVIZI DI ACCOGLIENZA, AI CITTADINI STRANIERI RICHIEDENTI PROTEZIONE INTERNAZIONALE CHE VERRANNO LORO AFFIDATI, E LA GESTIONE DEI SERVIZI CONNESSI. PROCEDURA DI GARA AVENTE AD OGGETTO SERVIZI DI CUI ALL'ART. 20 DEL D. LGS. n. 163/2006. CIG: SRA760028

Prefettura di Treviso

Ufficio Territoriale del Governo

ENTE APPALTANTE: PREFETTURA – U.T.G. di Treviso, Piazza dei Signori – 31100 TREVISO; telefono 0422592411, sito web: www.prefettura.it/Treviso indirizzo posta elettronica certificata: protocollo.prefixe Dec.interno.it - RUP di Gara: Dr. Giovanni BONALDO – Funzionario addetto al Servizio Contabilità e Gestione Finanziaria - Ufficio Servizi Generali, Accasermamento ed Attività Contrattuale.

ART. 1) INDICAZIONI GENERALI

La Prefettura – U.T.G. di Treviso, su richiesta del Ministero dell'Interno, con circolare prot. n. 0005484 del 27 giugno 2014, in relazione al perdurante e straordinario afflusso di cittadini stranieri che interessa i lintero territorio nazionale, intende concludere un accordo quadro al sensi dell'art. 59 del decreto legislativo n. 163/2006 e ss.mm.il., nel presupposto degli artt. 20 e 27 del D.Lgs n. 163/2006. La presente provincia di Treviso, richiedenti protezione internazionale ed in attessa di inserimento nei contri governativi ovvero nel circuito SPRAR.

L'importo complessivo presunto della gara è di euro 1.226.225.00 (unmilioneducentotrentassimiladucentotrentasingue/00) oltre 1VA de è stato determinato sulla scorta delle presenza effettiva attuali di cittadini extracomunitari (77) ospitati nei comuni della provincia di Traviso, incrementato con la quota regionale assegnata a livello provinciale (142 + 20%= 170) nell'ambito del tavolo di coordinamento con le modalità indicate dalla circolare del limistero dell'interno n.7418 del 20 giugno 2014, tenuto conto che il servizio sarà presumibilmente svolto nell'arco temporale successivo al 10 agosto 2014 e sino al 31 dicembre dello stesso anno, salve proroghe.

Durante il periodo di validità dell'accordo quadro l'esecuzione dei servizio da parte decii operatori economici Individuati è evenutuale ed avversi solo a seguito di ulteriore atto di affidamento diretto da parte dell'Amministrazione, in base ai criteri contenuti nel presente Bando. In ordine a quanto su rappresentato, si evidenzia, che, questa. Amministrazione, corrisponderà compensi, agli operatori con cui si stituuta l'accordo, quadro solo se effettivamente verranno inviati cittadini stranieri preso le loro strutture ed esclusivamente in base al numero realmente ospitato: qualora gli operatori economici (o parte di essi) non dovessero ospitare migranti nel periodo di validità dell'accordo quadro. J'Amministrazione no crispondera i acuni importo ai medesimi, a qualisisi titolo, Qualora si verifichino ingenti afflussi di profughi l'Ente offerente si impegna con la partecipazione alla presente gara a presequire eventualmente il servizio anche per l'anno 2015.

ART. 2) OGGETTO DELLA FORNITURA

Oggetto dell'affidamento, a carico di ciascun operatore economico con cui si stipulerà l'accordo quadro, sono il servizio di accoglienza, nell'ambito della Provincia di Treviso, al cittadini stranieri richiedenti protezione internazionale e la gestione dei servizi connessi, di cui si forniscono le seguenti specificità.

1

Servizio di gestione amministrativa

FIND THE SOURCE

Upon further investigation, it can be discovered that these funds are provided by the government to the facilities that host the migrants through local tenders issued by Prefectures, the authorities that represent the central government at the local level.

These tenders are also a primary source to check. For instance, the tender announced by the Prefecture of Treviso, in Northern Italy.



BUSTA B) Offerta economica,

Questa busta dovrà contenere: l'offerta economica ed un'ulteriore busta sigillata con su scritto

"Giustificazioni".

L'offerta economica redatta su carta legale o resa legale mediante l'apposizione della corrispondente marca da bollo, redatta utilizzando il Mod. 2 e sottoscritta dal rappresentante legale del soggetto concorrente, a pena di esclusione, deve contenere l'indicazione in cifre e in lettere di <u>un'unica percentuale di ribasso da applicarsi sull'importo a base di gara di C 35,00</u> (trentacinque/00) oltre IVA, corrispondente al prezzo giornaliero per i servizi indicati nell'oggetto della presente gara per ogni immigrato. Tale ribasso percentuale, pena esclusione, non deve indicare più di due decimali, ossia la percentuale di ribasso può indicare due numeri prima della virgola e non oltre due numeri dopo la virgola (es. offerta corretta 12,34 - offerta errata che comporta esclusione dalla gara 12,345). In caso di discordanza tra la percentuale indicata in cifre e quella in lettere sarà ritenuta valida quella più vantaggiosa per l'Amministrazione ai sensi dell'art. 72 del R.D. n. 827/1924.

ANALYZE THE CONTENT

At this point, we can better analyze the content. In the tender, it is mentioned that the starting bidding price is 35 euros per person and the bidding process is carried out in a downward manner.

But what exactly are these funds used for?



DATA LITERACY

Fornitura di beni

La struttura di accoglienza dovrà famire tutti i generi di prima necessità come di seguito elencato:

 a) effetti letterecci adeguati al posto occupato, composti da materasso, cuscino, lenzuola, federe e coparte che saranno periodicamente cambiati per l'avvio ai servizi di lavanderia e quant'altro utile al confort della persona;

1



b) vestiano adeguato alla stagione, intendendo la fernitura del minimo necessario al momento dell'accoglienza presso la strutura e all'occorrenza il rinnovo degli stessi beni da effettuare periodicamente al fine di garantire l'iginene al il decorro della persona;

c) prodotti per l'igiene personale e rinnovo degli stessi consumabili con l'uso (quali sapone, shampoo, dentifrici, carta igienica, ecc.) come indicato in allegato "C";

d) erogazione del "pocket money" nella misura di euro 2,50 pro-capite / pro-die fino ad un massimo di C 7,50 per nucleo familiare, da erogare sotto forma di "buoni" (spendibili in strutture de esercenti convenzionali) o di carte prepagate da utilizzare a seconda delle necessità dell'ospite (per schede telefoniche, snack alimentari, giornali, sigarette, fototessere, biglietti per trasporto pubblico) come indicato in allegato "C, Il pocket money verà erogato dalla struttura ospitante, in relazione alle effettive presenze registrate per clascun ospite, dietro firmo da parte dei destinataria e riprova dell'avvenuto rilasco.

e) erogazione di tessera/ricarica telefonica di euro 15,00 all'ingresso.

Servizi per l'integrazione

Per tutti i soggetti assistiti è previsto un servizio di mediazione linguistica e culturale che deve garantire la copertura delle seguenti prestazioni:

a) servizio di assistenza linguistica e culturale;

b) servizio di informazione sulla normativa concernente l'immigrazione, i diritti e doveri e condizioni dello straniero;

c) sostegno socio-psicologico;

d) assisteriza sanitaria da elfettuare presso presidi sanitari territoriali o medici di base, comprese le vaccinazioni obbilgatorie, giusta previsione degli artt. 34 e 35 del decreto legislativo n 286/1998;

e) orientamento al territorio, primo orientamento ed assistenza alla formalizzazione della nchiesta di protezione internazionale, informazione ed assistenza nei rapporti con la Questura competente per l'inserimento nel sistema di protezione per richiedenti protezione internazionale, asilo e rifugiati;

f) assicurare che gli ospiti possano effettuare telefonate anche mediante l'uso di schede

ANALYZE THE CONTENT

Upon closer analysis, we discover that these 35 euros are intended to cover many expenses.



d) erogazione del "pocket money" nella misura di euro 2,50 pro-capite / pro-die fino ad un massimo di € 7,50 per nucleo familiare, da erogare sotto forma di "buoni" (spendibili in strutture ed esercenti convenzionati) o di carte prepagate da utilizzare a seconda delle necessità dell'ospite (per schede telefoniche, snack alimentari, giornali, sigarette, fototessere, biglietti per trasporto pubblico) come indicato in allegato "C", Il pocket money verrà erogato dalla struttura ospitante, in relazione alle effettive presenze registrate per ciascun ospite, dietro firma da parte del destinatario a riprova dell'avvenuto rilascio,

ANALYZE THE CONTENT

Only a small fraction actually reaches the refugees' pockets.

How much? 2.5 euros. And no more than 7.5 euros per family.



d) erogazione del "pocket money" nella misura di euro 2,50 pro-capite / pro-die fino ad un massimo di € 7,50 per nucleo familiare, da erogare sotto forma di "buoni" (spendibili in strutture ed esercenti convenzionati) o di carte prepagate da utilizzare a seconda delle necessità dell'ospite (per schede telefoniche, snack alimentari, giornali, sigarette, fototessere, biglietti per trasporto pubblico) come indicato in allegato "C", Il pocket money verrà erogato dalla struttura ospitante, in relazione alle effettive presenze registrate per ciascun ospite, dietro firma da parte del destinatario a riprova dell'avvenuto rilascio,

2.50 euros per capita/per day, up to a maximum of 7.50 euros per family unit.





LOOK AROUND

To verify if our research and conclusions are accurate, we can try to look around for additional information on the topic.

For instance, a report from the Ministry of Internal Affairs.



Dato che la voce più consistente è quella del personale (38%), la prima considerazione è che **sui circa 35 euro pro-capite spesi per lo SPRAR, oltre un terzo va a coprire le retribuzioni di operatori e professionisti.**

Voci di spesa	Spesa 2014 (euro)	Distribuzione
Costo del personale	13,16	37,9%
Oneri relativi all'adeguamento	4,30	12,4%
Spese generali per l'assistenza	8,24	23,8%
Integrazione	2,15	6,2%
Consulenze	1,31	3,8%
Costi indiretti	0,30	0,9%
Altre spese	5,21	15,0%
Totale	34,67	100,00%

LOOK AROUND

The report verifies that the average daily expenditure per refugee is indeed 35 euros.

However, only a small portion is allocated directly to the immigrants, specifically a fraction of what is termed "general assistance expenses," averaging around 8.24 euros.



Quanto "intascano" i richiedenti asilo dei famosi 35 euro al giorno 2,5 Pocket money Nelle mani del 32.17 richiedente protezione Altro internazionale Costo del personale, oneri relativi all'adeguamento, spese generali per l'assistenza, integrazione, consulenze, costi indiretti, altre spese Fonte: Ministero dell'Interno openmigration.org

LOOK AROUND

A dossier from the Carta di Roma Association affirms that the state allocates 35 euros for every asylum seeker, with a mere 2.5 euros directly benefiting the individual. The remaining funds are attributed to expenses related to reception, assistance, integration, and other associated costs.

DATA LITERACY



Migranti, i costi dell'accoglienza: 35 euro al giorno. Ma ai richiedenti asilo ne vanno 2,50

di Andrea Gagliardi 4 giugno 2018



LOOK AROUND

Similar data is reported in an article from the Italian newspaper "II Sole 24 Ore".





LOOK AROUND

A report from UNHCR Italy similarly concludes that asylum seekers are entitled exclusively to pocket money, amounting to 2.50 euros per day, with a cap of 7.50 euros per family unit.



COURSE 1



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SYNTHETIC MEDIA

COURSE 1



FAKE RISK ESCAPING THROUGH THE EMPOWER-MENT OF YOUTH NEXT

Course 1

Living in a World Built on Data



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SYNTHETIC MEDIA

COURSE 1



Fake RISK ESCAPING Through The Empower-Ment Of Youth Next

Module 1.2

Synthetic Media



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SYNTHETIC MEDIA





PART 1

What are synthetic media?




Synthetic media include:

- video
- audio
- pictures
- texts

generated by an artificial intelligence (AI) that manages everything (or part) the creative process.



EVOLUTION OF MEDIA







SYNTHETIC CHARACTERS

Lil Miquela is the most famous virtual avatar, with over 3 million followers on Instagram.

She has worked for big brands and appeared in videos with other celebrity.

Yet she is not real, she is a 3D model created by a team of experts in special effects.

Compared with special effects, these avatars are generatable almost by anyone, thanks to apps that we are now going to discover





SYNTHETIC VIDEOS

Deepfakes are the best known examples of synthetic videos created with Artificial Intelligence and Special Visual Effects technologies.

Here are some examples:

- Terminator with Sylvester Stallone
- Zuckerberg controls us
- Beckham speaks 9 languages





SYNTHETIC IMAGES

Artificial intelligence software is able to generate easily images of people who do not exist, such as these models: none of them exist.

Look at the project <u>ThisPersonDoesNotExist.com</u>

The models in these images are not real, they are stock photos





These people may look familiar, like ones you've seen on Facebook or Twitter.



SYNTHETIC IMAGES

This Ny Times article analyzes how the synthetic images and what are the best strategies for verify them.

Also, check this out: Al biases





SYNTHETIC IMAGES

There are <u>image banks</u> that allow you to generate synthetic photos with the characteristics that we want.



Go to Face Generator and try to create a series of artificial portraits.





FAKE GEOGRAPHY

Software is capable of generating credible satellite images of Completely nonexistent locations.

- Fake Geography
- <u>The Fake Places That Only Exist to Catch</u> <u>Copycat Mapmakers</u>





ANIMATED PHOTOS

Al now makes it easy to animate static images and thus to "bring back to life" people who never existed, such as the characters from famous paintings or even animate portraits Of old family photos with <u>DeepNostalgia</u>.

MICRO-ACTIVITY

Take a historical black and white photo, upload it to <u>DeepNostalgia</u> And see how it feels...





SYNTHETIC VOICES

Artificial voices have become mainstream in smartphones that we all use.

But now you can also create your own voice artificial, cloning their own or other people's. Look at the project <u>Resemble.ai</u>

Siri or Alexa are examples of synthetic voices





PART 2

From text to...



ChatGPT

CHATGPT

It is the tool that made text generative AI popular.

If you use it for business, we recommend to use Premium version: more stable and with access to better features (including the GPT4, while the free version has the GPT3.5 model)





In 2022, the number of AI software able to transform text (of prompts) into different types of content: images, audio, programming language started to spread...











Spencer Platt/Getty Images



Alas, stocks do not only go up.

TRAINING DATA

First of all, the model needs a dataset of training that includes matching text and image pairs. These pairs are used to teach the model how the textual descriptions correlate with visual images.







DEEP LEARNING

The deep learning model is then trained on this set of data. During this phase, the model learns to map the textual descriptions in a feature space that can be further used to generate images.







LATENT SPACE

The trained model generates a representation in the "latent space" which is a compendium of essential features of both the text than of images. This latent space acts as a bridge between textual descriptions and visual images.







GENERATION

When entering a new textual description into the model, this is first mapped to the latent space.

From here, the model uses its visual part to generate an image that matches that latent representation. In this way, words are "translated" into a visual form.





TEXT TO IMAGE

There are several software programs that allow you to turn prompts into images, some have already become chargeable. <u>Have you ever tried dream.ai</u>?



Can you distinguish the 3 dogs created by the StableDiffusion AI from the real one? Activity proposed by the nonprofit association thisdogexist





It may be helpful for you to know that there are databases of stock images created by AI that can be used for free.

$\textcircled{\textcircled{0}} \bigcirc \ \textbf{MICRO-ACTIVITY}$

Browse stockai. Discover hundreds of Algenerated images and the prompt that was used to create them.





TEXT TO SPEECH

Compared with voice readers, TTSs are software that tries to simulating human voices.

There are several software programs, but most useful are premium

You can try Natural Reader





TEXT TO VIDEO

You start with a text, choose a template, avatar and style, and you gets a video!

Again, most of the platforms are freemium

MICRO-ACTIVITY

Try the free demo of <u>Synthesia</u> or <u>Runway</u> to generate a mini-video from text





Starting from normal text, you can get the translation in programming language also with ChatGPT.

SEE MORE

<u>A guide from FreeCodeCamp</u> on how to improve code thanks AI.







PART 3 Tools for creating synthetic media





DALL-E

First public image generator, created by OpenAl <u>Try it here</u>





MIDJOURNEY

Very powerful image generator, especially for the photorealism. Interface more complicated because you have to go through Discord.

Try it here





STABLE DIFFUSION

DreamStudio is Stable Diffusion's image generator.

It is open source Try it here





DREAM by Wombo

Very simple tool to use, but more limited than the others <u>Try it here</u>

[Prompt: A boy reading a book in a tree, realist style]







PART 4 Uses and abuses





EDMOND DE BELAMY

Artwork generated by the French collective Obvious. The painting is part of a series featuring a family fictional 18th-century Belamy family.

The work is being sold at auction by Christie's for a sum of approx. 432,500 in 2018.





SPATIAL OPERA HOUSE

This work won first place in the digital arts category In the Colorado State Fair of 2022.

Many competing artists were not happy...





SONY WORLD PHOTOGRAPHY AWARD

German photographer Boris Eldagsen, winner of the category Creative of the prestigious Sony World Photography Award, declined the award as it used <u>an</u> <u>image generator of</u> artificial intelligence to create his work.



Fake Faces: People Who Do Not Exist Invade Facebook To Influence 2020 Elections (Part 1)



FALSE POLITICIANS

A network of fake Facebook accounts to influence the outcome Of the elections in 2020.













DEEPFAKE IN WAR

Fake video with the president of Ukraine announcing to the country the surrender.




TRUMP ARRESTED

The fake picture of Donald Trump's arrest





POPE IN A DOWN JACKET

Pope Francis in an alleged white comforter was another photo-visual AI catchphrase.

It was actually generated <u>as</u> <u>an experiment</u>.





PUTIN ON HIS KNEES





BERLUSCONI'S MOCK FUNERAL







UNCANNY VALLEY





PART 5

How to analyze an Al-generated media





CHECKLIST

Al is still not perfect. Many physical and environmental details do not Are best rendered, such as:

- facial details
- movements
- background elements
- glitch







TEETH

These imperfections are most noticeable on teeth, eyes, and hair. <u>As</u> <u>seen in this video, Obama's teeth are</u> <u>all the same and ill-defined</u>.







Or again in these photos with poorly defined teeth or shapes out of proportion.







Strange movements in the forehead or facial muscles, <u>as in this video of</u> <u>Obama where the jaw seems to go on</u> <u>its own</u>





BLINKING OR NOT?

Some researchers <u>have noticed</u> that in early deepfakes, the characters never blinked. Kind of like the cyborg characters in Terminators who never blink.

The new deepfakes have corrected this error, but some times it is possible to find.







HAIR AND SKIN

Excessively smooth and shiny skin.

Hair with iridescent colors or strong streaks.







EYES and EARS

Asymmetries in the eyes, ears... Also beware of glasses: software often creates lenses with different or wrong mounts.





EYE REFLECTIONS

Researchers at the University at Buffalo have shown that many Synthetic images have reflections in different eyes. An algorithm has been trained to automatically recognize these differences.







HANDS

Generative AI programs still make it very difficult to create Hands done right, with all fingers.

You can see it both in the photo: - Putin with Jinping





HANDS

Look closely...







BACKGROUND

 \rightarrow Vague and blurred shapes in the background





BACKGROUND

 \rightarrow Texts that are unreadable or generated with strange alphabets

 \rightarrow Indistinct masses of color







GLITCH

Strange color patches or "glitches" (system defect) especially when the speaker moves from a frontal shot to a lateral shot.







A closer look at the Balenciaga Pope image

His **eyelid** appears to merge into his glasses then flow into their own shadow









His **fingers** are closed around thin air rather than the coffee cup he carries The **crucifix** is held inexplicably aloft with the other half of the chain missing





WATERMARK

DALL-E introduced a watermark to signal that an image was artificially generated.

It appears as a sequence of 5 colored squares and can be found in lower right. In any case, the watermark can be easily removed with several online programs.





REVERSE SEARCH

Some useful tools:

- Google Images
- <u>TinEye</u>



Forensic



InVID

InVid is a free online service that allows you to conduct analysis in-depth on video and images. Useful if you want to analyze individual frames of a video with a deepfake and so better understand whether there are details (teeth, eyes, hair) that don't quite add up.







AI DETECTOR

<u>A tool</u> featured on Hugging Face that tells us the probability of Automatic generation of an image.

- With Putin-Jinping gives artificial48 percent.
- With Berlusconi's alleged funeral he is confused (43% artificial)





STABLE ATTRIBUTION

<u>Tool</u> that only works with images generated with Stable Diffusion. Tells us what images are used for the training set



deepware*

DEEPWARE SCANNER ABOUT US

CONTACT US

Scan & Detect Deepfake Videos

Scan a suspicious video to find out if it's synthetically manipulated

GO TO SCANNER



DEEPWARE

<u>Tool</u> analyzes videos posted online and tells us how much probabilities were generated by AI. <u>Try this deepfake with a</u> <u>fake Tom Cruise</u>.

More similar tools here





CHATBOTS IN VR

COURSE 1



Chatbots in VR: New Means of Visualizing them



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Module 2.1

Synthetic Media





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What are chatbots?

MEDIA LITERACY





MEDIA LITERACY





Image





Answering	J
questions	

Resolving complaints

Making reservations

Voice assistance

Getting ideas and inspiration

Finding a human customer service assistant Paying bills

24/7 Support



You might know some already...









MEDIA LITERACY






Not without its flaws...



Read about it here





How do chatbots work?









Question & Answer system Front-End systems

Environment

Node / Traffic server

Custom integrations









Types of chatbots



Architecture

Rule-based chatbot

X

H&M Chatbot

H&M may process personal data collected in this chat or survey to improve your experience. By proceeding, You agree that H&M will use and store the contents of this Chat for customer service purposes. Please visit our <u>Privacy Notice</u> for further information.

Hi! I'm H&M's friendly chatbot. I can help you with finding a product or give quick answers to common questions. How can I help you today? Al-based chatbot

Trained using machinelearning algorithms & can understand open-ended queries









Using chatbots



AI integrations







Notion for planning and project management **Discord** for automations on servers and Q&A

Wordpress Plugins - Divi Al for automations on websites and easy content creation



Prompts

Format/length	Write a 150-word LinkedIn post
Action	demonstrating excitement about
Context	Clara Gaggero Westaway's predictions fo
Source	in this Design Week article: www.designweek.c
Audience	Discuss why her predictions are relevant
Tone/style	Use a chill and friendly voice.



MEDIA LITERACY

Sophia By Hanson Robotics

Advanced human-like robot, Sophia, personifies our dreams for the future of AI. As a unique combination of science, engineering, and artistry, Sophia is simultaneously a human-crafted science fiction character depicting the future of AI and robotics, and a platform for advanced robotics and AI research.

Find out more about her here



MEDIA LITERACY



Building and deploying chatbots



There are several free platforms available for creating chatbots, such as:

- **Dialogflow** by Google
- Chatfuel
- <u>Manychat</u>





RISK ESCAPING THROUGH THE EMPOWER-MENT OF YOUTH NEXT

Digital Medias – New Realities



Module 2.2

Synthetic Media





Co-funded by the European Union





Part 2 Digital Medias -New Realities



Course Overview

- ✓ The difference between VR / AR / MR
- ✓ The artistic value of these digital media
- \checkmark Where to start



MEDIA LITERACY

What is Extended Reality (XR)?



Virtual Reality



















Virtual Reality = 100% virtual





Virtual Reality (VR) is a computergenerated simulation that immerses users in a synthetic, interactive environment, providing a sense of presence and engagement.

In this lecture we will see:

- What does it mean to be fully immersed
- How media have evolved over time
- How many kinds of artificial content exist today













- + easy to use
- + accessible/affordable
- + for 360° videos
- bad quality image
- limited interaction
- ! phone is required



- + interactive and immersive
- + for 360° videos and not only
- + good quality image
- needs some adaptation to use it
- not cheap (350+ euros)



MEDIA LITERACY

VR use cases







Architecture

UNIT 1 Fully immersed in VR







Interior Design









Design







Healthcare

UNIT 1 Fully immersed in VR







Training

UNIT 1 Fully immersed in VR









Therapy





Tourism








Art

UNIT 1 Fully immersed in VR







Education



Augmented Reality = virtual + physical world (on the phone or tablet...)





UNIT 2 - Exploring the Augmented Reality







UNIT 2 - Exploring the Augmented Reality



AR use cases

UNIT 2 - Exploring the Augmented Reality





Retail

UNIT 2 - Exploring the Augmented Reality







Art

UNIT 2 - Exploring the Augmented Reality





Education

UNIT 2 - Exploring the Augmented Reality







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UNIT 3 - Mixing in MR

MEDIA LITERACY

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9



MR use cases







Healthcare





Design and Prototyping





Training









Education





Forecast

Source: ESOMAR, Vantage Market Research



How to make it yourself?









