







Seminario Regionale eTwinning Piemonte 17 novembre 2021

"WHAT to teach or HOW to teach?

eTwinning è la risposta!"

Deepfakes and how to spot them

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What is Artificial Intelligence (AI)?

Artificial Intelligence



Any technique that enables computers to mimic human intelligence. It includes machine learning

Machine Learning



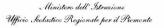
A subset of Al that includes techniques that enable machines to improve at tasks with experience. It includes *deep learning*

Deep Learning



A subset of machine learning based on neural networks that permit a machine to train itself to perform a task.









What is Artificial Intelligence (AI)?

THREE TYPES OF AI

NARROW AI



can perform one or few specific tasks

exists today





GENERAL AI



similar to human intelligence

doesn't exist

SUPER AI



self-aware, exceeds human intelligence

doesn't exist

#AIBASICSFORSCHOOLS



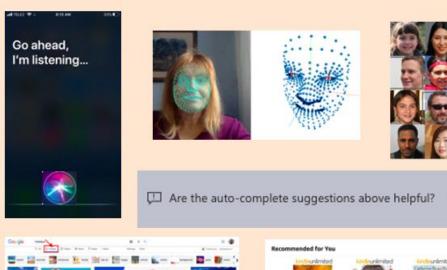








Al in everyday life



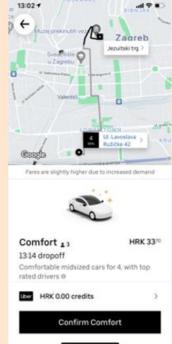


STATE OF LIST

*













DEEPFAKES = The dark side of Al

WHAT?

Artificial images, videos, sounds, text

- Synthetic media

HOW?

Al tools and technologies – simple and easily accessible

WHO?

Cybercriminals

Manipulators

Pranksters

WHY?

To spread misinformation

To influence people into believing something happened that didn't

To hurt people











The purpose of deepfakes

Election manipulation

Hoaxes

Reputation smearing

Social engineering

Financial fraud

Blackmail

Celebrity pornography

Phishing scams

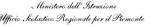
Data breaches

Automated disinformation attacks

Identity theft

Credit: Norton









Seeing is no longer believing



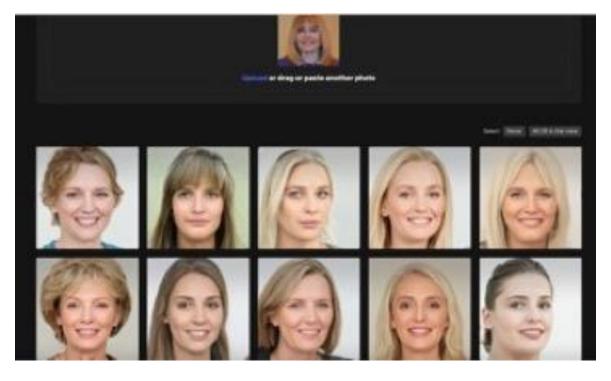


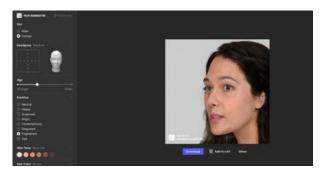






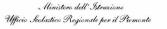
Seeing is no longer believing









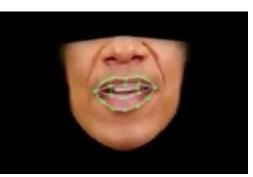






Watching is no longer believing





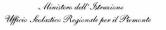




A SIMPLE EXAMPLE











Hearing is no longer believing







Reading is no longer believing



Before boarding your rocket to Mars, remember to pack these items with your first parachute, but you will need a parachute booster or parachute pad in your pocket to hold your parachute in place. For those that need a parachute pad, this is not necessary.

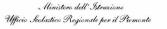
A parachute pad consists of four segments: a short end that attaches a...

The rocket itself can only fly one flight, and the parachute can only fly ...

The best thing you can do is get a reusable parachute in your pocket.











HOW TO SPOT DEEPFAKES





FIGHTING DEEPFAKES

Don't blink Smile









Which face is real?

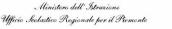


Water splotches
Background problems
Eyeglasses
Asymmetries
Hair
Fluorescent bleed
Teeth

www.whichfaceisreal.com











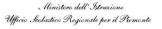
How to spot deepfake videos



https://detectfakes.media.mit.edu/



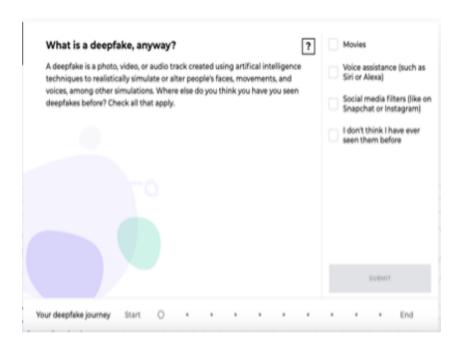








Quiz: Spot deepfakes



www.spotdeepfakes.org

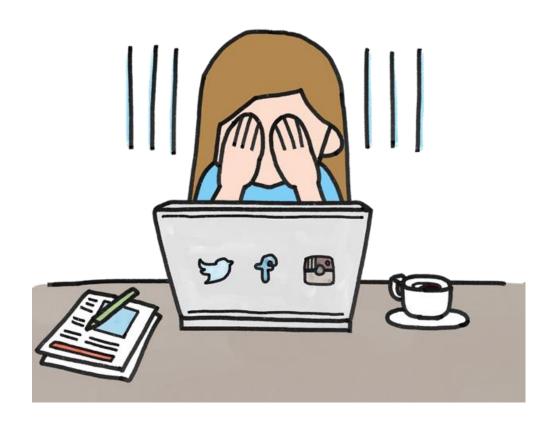








How to teach students to spot deepfakes?



Not everything is fake!







Can we trust the media?

Can we believe what we see, hear, read?

Understand what AI is and how it operates.

Raise awareness of the risks of AI.

Develop a capacity to deal with ambiguity and use critical thinking to make judgements.

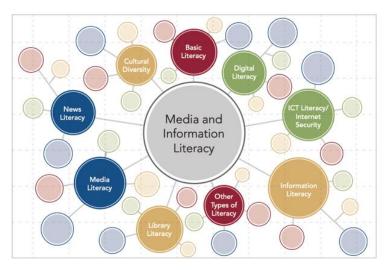




Media and information literacy

A SET OF COMPETENCIES

- access, have a critical understanding, evaluate, create, share and interact with information and media content in all formats
- use various tools in a critical, ethical and effective way
- and make informed decisions.



SOURCE: UNESCO





Teaching critical digital literacy

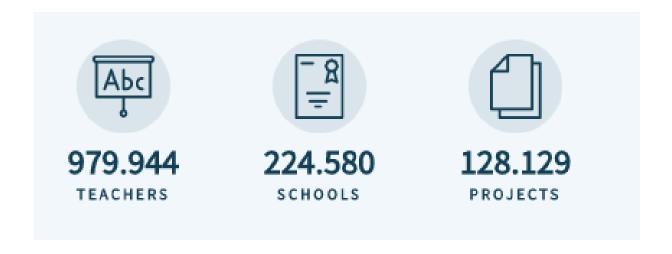
This year's eTwinning theme "Teaching Media Literacy and fighting Disinformation with eTwinning"

Equip eTwinning teachers with digital skills

INTEGRAL PART OF ETWINNING



How can eTwinning help?



If only 10% of eTwinning teachers educated 10 pupils each in media literacy – the reach would be 9 million pupils!

Anne Gilleran, 2021





Some practical activities for students (and teachers)



Let's keep going. Now that you get the idea, what basic emotion do you want

























