# Edu4AI

## Artificial Intelligence and Machine Learning to foster 21st century skills in secondary education

https://www.edu4ai.eu

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Artificial intelligence (AI) is one of the technologies that will significantly change our society, economy and labour market over the next few decades. Some of the best-known examples of AI application areas are autonomous driving, chatbots, voice assistants, internet search engines. Early training in artificial intelligence goes beyond computational thinking and examines how computers perceive, think, act, learn and make decisions. Although early education in AI appears to be a necessity, there is no set of rules for the use of artificial intelligence in schools. Various technical solutions and initiatives for personalised and creative learning have been announced with promising results, the ways however that educational institutions are using these tools strongly varies and is entirely up to them.

The Edu4AI project brings together AI applications and artefacts through a methodology based on the trend of the maker movement. The project, following the principles of iterative design, carried out pilot studies with teachers and students from Germany, Greece, Spain and Italy and used the feedback obtained to develop and refine lessons on foundations of AI together with hands-on projects in numerous AI application areas:

- Semi-autonomous vehicle controlled by the driver's voice commands.
- Autonomous driving vehicle recognising traffic signs based on Raspberry Pi.
- Development of a chatbot, which functions as a virtual school assistant.
- Training a model to recognise whether a person is wearing a COVID-19 face mask.
- Pose recognition, body schema detection in order to inspire the creation of apps around dance and on gamification techniques.
- Face recognition and emotion analysis

These pilot projects are accompanied with a set of clear and easy to reproduce instructions, videos, presentations, teacher and student materials and have been successfully implemented in schools in Germany, Greece, Italy and Spain.

**The results of the Edu4AI project together with the AI pilots which have been developed will be presented in a full-day hands-on training workshop at the Johannes-Kepler Gymnasium in Weil der Stadt, Germany on 08 July 2022. Don't miss the opportunity to see the Edu4AI pilots projects in action and learn first-hand how AI can be introduced in schools.** More information is available at the project's website https://edu4ai.eu