



NEWSLETTER N.1

ARTIFICIAL INTELLIGENCE USING INTERNET OF THINGS IN STEM EDUCATION

The AI4STEM project will utilize the Five Big Ideas in AI concept and a series of IoT projects to develop an educational framework on which students (8-16 years old) will be introduced to artificial intelligence through hands-on lessons, blending the Internet of Things principles, programming, and STEM learning outcomes.

By using the project results, educators will be able to arouse their students' interest and increase their awareness of how AI can positively affect their daily lives. Students, with the help of their teachers, will develop a series of IoT projects, such as a smart agriculture system, a weather reporting system, a home automation system, a smart garage door, etc. through which the Five Big Ideas in AI will be explained, namely Perception, Representation & Reasoning, Learning, Natural Interaction, and Societal Impact in order to understand what AI is, how it can simplify processes, what impact AI can have in daily interactions and which implications and challenges the society needs to overcome.

Specific objectives of the project:

- Providing educators with a hands-on educational approach to introduce students to Artificial Intelligence principles using the Five Big Ideas in AI and a series of IoT projects.
- Developing an effective educational package that integrates AI in STEM subjects and can be utilized in a classroom environment or through remote learning.
- Creating a community of practice for educators and learners, through a virtual academy, which ensures continuity and further development of the project outcomes, as well as promotes collaboration and constructive discussions.

Target Groups

Direct:

- Teachers/educators of STEM subjects in upper primary and secondary education.
- Students (8-16 years of age)

Indirect:

- Parents, the educational community (trainers/academic staff).
- Policymakers, ministries of education and academic bodies.
- Other target groups are various communities and authorities in: the E&T, EdTech and STEM sectors as through the project a specific strategy will be developed for promoting the targets set by the European Commission and engaging these target groups in constructive discussions and learning initiatives.

The consortium

