Trustworthy AI

Trustworthy AI Project

Enhancing the teaching of Artificial Intelligence and its ethical aspects

Welcome to
Trustworthy AI Project!

In recent years, Artificial Intelligence has been developing rapidly, improving our healthcare systems, and increasing the efficiency of farming, production systems, security and much more[1]. However, the offer of AI specialisations within the fields of Science, Technology, Engineering and Mathematics (STEM) has not been able to adapt to the fast-moving environment and it still mostly focuses on technical aspects of AI. Consequently, as the European Commission (2020; 2018)[2] often pointed out, nowadays there is still a poor understanding amongst STEM students of the scope, opportunities and risks that arise from the spreading of AI. AI, indeed, brings into play complex challenges that range from privacy and security to social discrimination that generations to come will have to tackle to protect fundamental European values that are at the core of our society. It is therefore crucial that the developing of AI is accompanied by a deep understating of all the implications for its users. Nevertheless, still today HEIs rarely address in their specialisations the importance and scope of ethical aspects of AI (trustworthy AI).

Our Erasmus+ funded Trustworthy AI programme has therefore been created with a clear goal: expanding the teaching of Artificial Intelligence in HEIs especially from the perspective of ethics and values. Trustworthy AI will reach a broad audience that ranges from STEM to HEI teachers from different disciplines. The aim is to provide them with the necessary resources for the understanding of the importance and scope of trustworthy AI and the tools to integrate it in their teaching. In this way, Trustworthy AI will shed light on the benefits and risks related to AI and will make sure that the development of new technologies goes hand in hand with the full respect of fundamental European values.
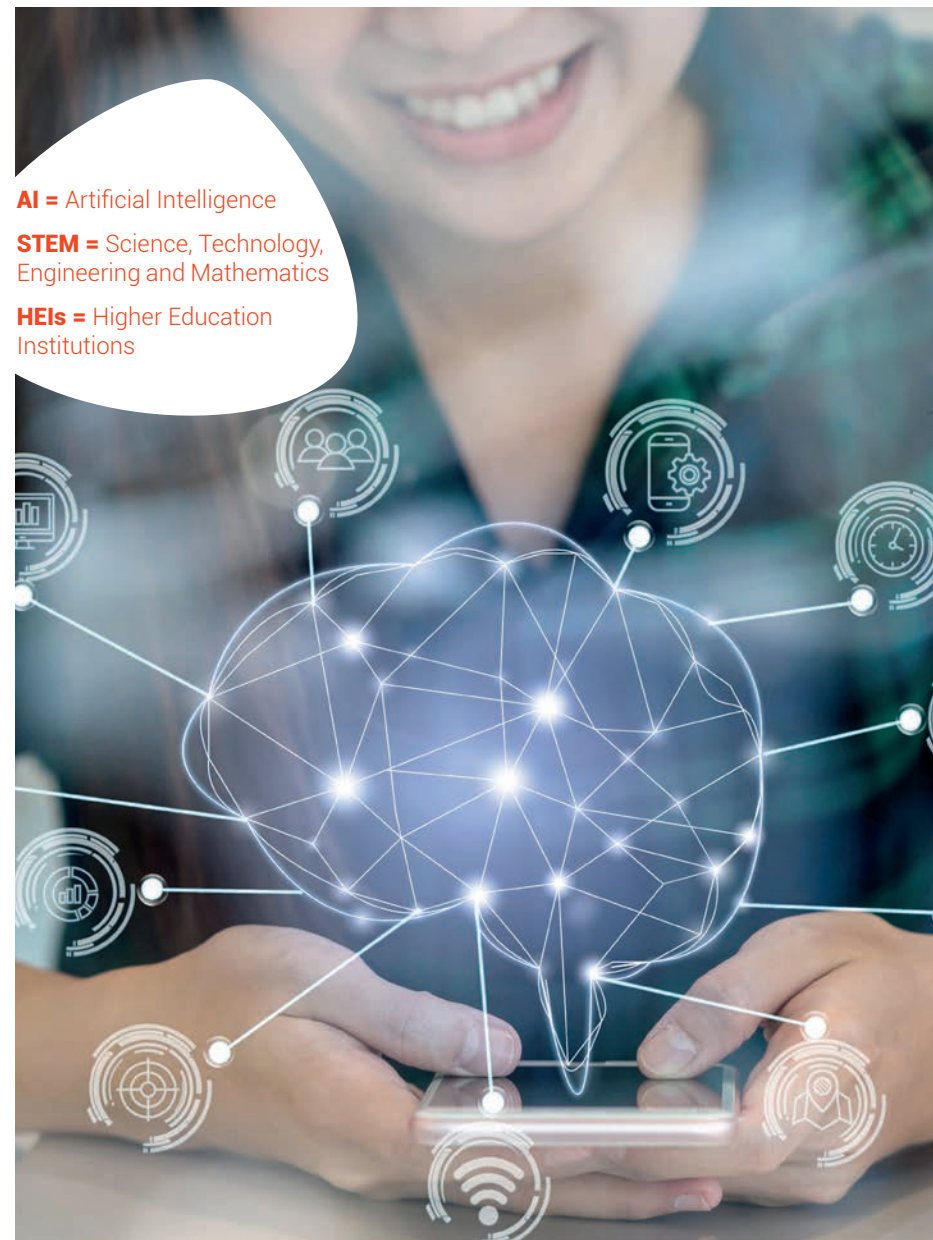
[1] European Commission (2020) "White Paper on Artificial Intelligence – A European Approach to Excellence and Trust." Brussels.
[2] European Commission (2020) "White Paper on Artificial Intelligence – A European Approach to Excellence and Trust." Brussels; Comisión Europea (2018). "Comunicación sobre el Plan de Acción de Educación Digital." Bruselas.

AI = Artificial Intelligence

STEM = Science, Technology, Engineering and Mathematics

HEIs = Higher Education Institutions

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Erasmus+ Programme
of the European Union

Our APPROACH

Integrating AI with Ethics and Trust

Trustworthy AI is a pioneering project that integrates the teaching ethics and trust into the AI curricula, following the EU High-Level Expert Group guidelines about the 7 elements of trustworthy AI.

Transversal Teaching of AI

The project brings added value by raising awareness, for the first time, of the potential, opportunities and risks of AI amongst teachers and students of all backgrounds.

Innovative Teaching Strategies

Trustworthy AI makes a significant contribution in enhancing commitment and capacity of HEIs to innovate in their teaching, not only from the content perspective, but also with regard to the methodologies.

Our OBJECTIVES

Produce 3 new resources to enhance the capacity of HEIs to introduce trustworthy AI teaching in their curricula.

Rigorously test the resources with more than 48 teachers and 200 students to optimise their relevance and effectiveness.

Strategically disseminate the resources produced, reaching at least 240 teachers that will integrate the latter in their teaching.

We **DEVELOP**

Learning Framework for Teaching Artificial Intelligence

A resource that introduces teachers to the 7 elements of trustworthy AI, as stated by the EU High-Level Expert Group on AI, along with teaching strategies for the development of students' AI skills from an ethical perspective.

Open Educational Resources (OERs) for Trustworthy AI

A pool of educational resources available for teachers, including teachers' guides, suggested activities and multimedia materials that can be shared directly with the students or adapted accordingly to suit a variety of needs.

Guide for the Realisation of Ethical Artificial Intelligence Hackathons

A resource that will make teachers aware of the scope and benefits of hackathons, as well as taking them through the necessary steps to organise hackathons aimed at exploring specific ethical challenges and issues.

We **IMPACT**

HEI Teachers

from various disciplines are the main target of Trustworthy AI. The programme, through its outreach activities, will provide at least 240 HEI teachers with the above-mentioned resources, aiming to include Ethical AI in their teaching curricula.

STEM Students

specifically, and students of fields related to business, public administration and social science, in general, will indirectly profit from the programme, as they will gain knowledge and real-life examples of an ethical use of AI.

HEI Leaders and Stakeholders

will also be the target of the programme, as there is need for a top-down input to update the curricula of HEIs to include trustworthy AI. The project hopes to raise awareness amongst this group of the urgency and need to change the approach towards AI.

Our **CONSORTIUM**

The Trustworthy AI project unites 7 partners from universities, businesses, start-ups, and networks from 5 EU Member States, whose experience and expertise provide an ideal foundation to achieve the project's objectives.

Universidad de Alcalá

ALLAI.

UIIN
University Industry
Innovation Network

UMEA UNIVERSITET

momentum
[educate + innovate]

Maynooth
University
National University
of Ireland Maynooth

EUEI
European
E-learning
Institute

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