

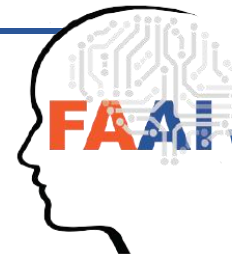
# State-of-the-art analysis based on Research 5: Questionnaire for IT Students, Masters and Alumni in Information Systems and Technologies

FAAI:  
The Future is In Applied Artificial Intelligence

UNI team

**Disclaimer:** Co-funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or Fundacja Rozwoju Systemu Edukacji. Neither the European Union nor the granting authority can be held responsible for them.



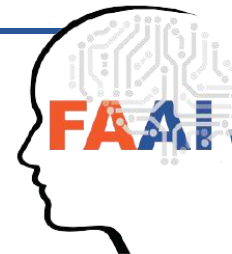


# Introductory questions

---

- The interest of IT graduates Masters and IT Alumni in Information Systems and Technologies for the online survey was impressive, with 1052 participants, mostly from the partners' countries.
- Respondents were mostly young people (72% younger than 24 years) still at universities (both Bachelor and Master) or working for a short period of time.



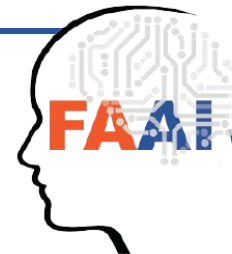


# Students

---

- Majority of students do not possess the knowledge about any relevant course at their university but demonstrated large interest in AAI content and new courses whereby their opinion is that the developing course should lean heavily on practical implementation with laboratory work, students' projects and internships.
- Presenting AAI research in a form of website should be one of the most important goals for partner universities, because that kind of informing is the easiest way to motivate and include students and other target groups in AAI topics.
- Large interest of the students in AAI issues, despite their low level of insight, adds to the project goal.



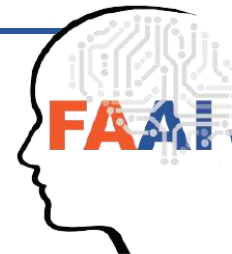


# Workers

---

- Almost the same number of surveyed persons was currently working or was without a paid job.
- Answers provided by working population showed that designed AAI trainings should be tailored particularly toward people working in the private sector (by content, time of lectures)
- Designed AAI trainings should be heavily oriented toward Software developers because they are making the majority of the target group for developing digital competencies and skills in the area of AAI.
- Workers in IT sector mostly work at positions where bachelor diploma is needed and either have no experience or very limited experience (up to one year) in AAI field.



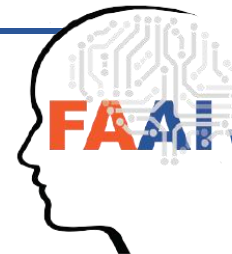


# Competencies

---

- Any designed training should focus on developing soft skills, especially those related to Teamwork, Communication and Time management. Creativity, Resolving problems and Capacity to learn and apply knowledge are also highly valued.
- Most valued professional competences which a specialist in AAI should have are Using appropriate training and testing methodologies when deploying machine learning algorithms, Recognizing the breadth and utility of machine learning methods, Selecting appropriate (classes of) machine learning methods for specific problems, Comparing and contrasting machine learning methods.



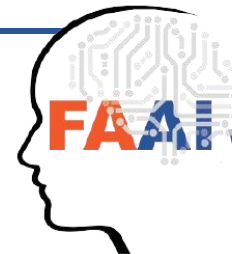


# Experience

---

- Surveyed persons identified as most popular AAI tools: Applied Artificial Intelligence Analytics platforms (Hadoop, Spark, Data Lakes, others), Applied Artificial Intelligence and distributed computing tools (Spark, MapReduce, Hadoop, Mahout, Lucene, NLTK, Pregel, etc.), and Google Colab.
- IT workers answered in large majority that they encountered situations where Knowledge was required, which they did not possess or Competence was needed, which they did not have.
- AAI trainings have to take into account desirable professions and to be tailored specifically around them, especially professions like Software Development, Project Manager, and Systems Administrator.





---

Thank you for attention!  
Questions?

