



A Young AI Team Working for You!

Do you have a challenge which you want to solve with the help of a young student team? Use the novel insights from our students! In this flyer we provide an overview of the projects at the University of Amsterdam in the Bachelor Artificial Intelligence.

Learning & Decision Making

A project to apply basic machine learning methods to gain deeper insight into the data at hand. The projects are tackled by multiple teams of students who are in the middle of their second year.

- When January
- Duration 4 weeks

2nd Year Project

A project using more advanced machine learning techniques that are applicable to fields such as **computer vision** and **natural language processing**. The project is handled by a team of students who are at the end of their second year.

- When June
- Duration 4 weeks

Thesis

A project handled by a single third-year student to complete their Bachelor program. The student works full-time on your project, utilizing the knowledge gained during the Bachelor Artificial Intelligence.

- When April — June
- Duration 3 months



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In this flyer, we aim to introduce you to the exciting collection of collaborative projects we offer, tailored to bridge the gap between academia and industry. As a technically oriented bachelor program in the field of Artificial Intelligence, we recognize the invaluable insights and expertise that your company can bring to the table. By joining forces with us, you will not only contribute to the development of our students but also harness the potential of AI to drive tangible outcomes for your organization.

By engaging with our program, your company stands to gain more than just a project. You'll have the opportunity to:

- **Access Young Talent:** Partnering with us grants you access to a pool of talented and driven AI students, eager to apply their skills to real-world challenges within your organization.
- **Drive Innovation:** Collaborating on projects allows you to tap into fresh perspectives and innovative solutions, propelling your company ahead in the ever-evolving landscape of AI technology and data-driven society.
- **Enhance Visibility:** As a partner of our program, your company will enjoy increased visibility within the academic community, positioning yourselves as leaders in AI innovation and education.
- **Shape the Future:** By guiding and mentoring our students through their projects, you play a pivotal role in shaping the next generation of AI professionals, leaving a lasting impact on the industry as a whole.

We invite you to explore the opportunities outlined in this flyer and consider joining us in a journey of collaboration and discovery at the University of Amsterdam. Together, let's work towards creating a brighter, more innovative future.



Machine Learning & Decision Making

Leren & Beslissen¹

During the project the students work in teams on AI-related problems for a company. Each project is tackled by multiple teams each consisting of 3-4 students. The students are supervised by a teaching assistant from the UvA and an employee from the company. The project is finalized by the students with a presentation and report detailing their methods and results.

Dates & Timeline

This project takes place each year in January. The duration of the project is four weeks: in 2025, the project starts on the 6th of January and ends on the 31st of January.

The project should be submitted at least 5 weeks before the start of the course.

What can the students offer?

The students are half-way in the second year of the bachelor Artificial Intelligence (the program has three years in total). This project follows up the course Machine Learning in which the students learned about several methods, the students know how to handle are:

- Linear regression,
- Naïve bayes,
- K-means clustering,
- Decision trees,
- Random forests,
- Logistic regression,
- Principal component analysis
- K-nearest neighbors,
- Basic neural networks
- Expectation maximization algorithm.

What do we expect from you?

- **Dataset:** The dataset should be **tabular** and ready to use at the start of the course. The students should be able to apply one of the machine learning methods mentioned above.
- **Working Field:** The methods mentioned above should be applicable. These can be applied in a wide range of fields. Possible projects include maintenance planning, fraud detection, and pattern detection & classification.
- **Amount of Participation:** The employee should be present for a kick-off meeting and the final presentations. Furthermore, it would be ideal if the employee is available during the course period to answer questions about the dataset and the required product. It is up to you how interactive you would like this project to be!
- **Further Requirements:** Your company should be in business for at least 6 months and have at least two founders/employees working full-time for the company.

¹ <https://studiegids.uva.nl/xmlpages/page/2023-2024/zoek-vak/vak/110342>



Second-Year Project

Tweedejaarsproject²

During the project the students work in teams on AI-related problems for a company. Each team consists of 5-6 students. The students are supervised by a teaching assistant from the UvA and an employee from the company. The project is finalized by the students with a presentation and report detailing their methods and results.

Dates & Timeline

This project takes place each year in June. The duration of the project is four weeks: in 2024, the project starts on the 3rd of June and ends on the 28th of June.

The project should be submitted at least 3 weeks before the start of the course.

What can the students offer?

The students are at the end of the second year of the bachelor Artificial Intelligence (the program has three years in total). They followed courses on Machine Learning (see Machine Learning & Decision Making), Natural Language Processing, and Computer Vision.

What do we expect from you?

- **Dataset:** The dataset should be ready to use at the start of the course.
- **Working Field:** Any field in which machine learning, for example computer vision or natural language processing, can be applied. Possible projects include building a recommendation algorithm, predicting behavior of customers, and object detection.
- **Participation:** The employee should be present for a kick-off meeting and the final presentations. Additionally, the employee will be in contact with the group the full duration of the course to address questions about the dataset and the required product. Finally, the employee can be present during weekly presentations where the students present their work.
- **Further Requirements:** Your company should be in business for at least 6 months and have at least two founders/employees working full-time for the company.

² <https://studiegids.uva.nl/xmlpages/page/2023-2024/zoek-vak/vak/110343>