

Artificial intelligence

Artificial Intelligence

Applied AI and machine learning

Python · Jupyter · pandas · scikit-learn · PyTorch

Level	Program	Format	Lessons	Language
From zero	8 modules	Online	Group or one-to-one	Azerbaijani

About the course

Using AI is one thing; building it is another. You start with Python and data, train your own model, and then create a real application powered by large language models.

Who this course is for

01 **Complete beginners**
No programming experience needed – the first module starts with Python itself.

02 **Developers**
If you already code, you learn to add AI features to your product.

03 **Analysts**
For those who want to move from Excel and SQL to machine learning and build forecasting models.

What a week looks like

01
Online lesson
The mentor explains the topic live; you ask your questions right in the lesson.

02
Lab
You repeat the same topic hands-on in a browser-based lab.

03
Weekly assignment
You test what you know with an assignment based on a real scenario.

04
Mentor review
The mentor reviews your work, points out mistakes and tells you the next step.

This isn't a video course: lessons are online and live with a mentor. A group of up to 5 people or one-to-one – the mentor sees everyone's work. Lessons are taught in Azerbaijani.

Curriculum

8 modules – from fundamentals to a profession

Every module ends with an online lesson, a lab and a weekly assignment. You move on to the next module once you have mastered the previous one in practice.

01

Python and working with data

Data is the raw material of AI.

Python · NumPy · pandas · Visualization

02

Mathematical intuition

Understanding through code, without memorizing formulas.

Linear algebra · Probability · Gradient descent

03

Classical machine learning

The foundation of every AI project.

Regression · Classification · scikit-learn · Model evaluation

04

Neural networks

How deep learning works.

PyTorch · Training loop · Overfitting · Working with GPUs

05

Computer vision and NLP

Models that work with images and text.

CNN · Transformer · Hugging Face · Fine-tuning

06

Large language models

Connecting an LLM to an application.

Prompt engineering · Working with APIs · Embeddings

07

RAG and AI agents

Systems that talk to your own documents.

Vector databases · RAG · Tool calling · Agent workflow

08

Capstone project

A product other people can use.

FastAPI · Deployment · Portfolio presentation

By the end of the course you will be able to

- Build and evaluate a model on a real dataset
- Train a neural network with PyTorch
- Adapt a pre-trained model to your own task
- Create a RAG application powered by an LLM
- Connect tools to an AI agent and build a workflow
- Deploy your project as an API and add it to your portfolio

Tools you'll use

Python · Jupyter · pandas · scikit-learn · PyTorch · Hugging Face · LangChain · FastAPI · Git

Where our graduates work

Kapital Bank · Rabitəbank · birmarket · RISK COMPANY · BMU Bakı Mühəndislik Universiteti · AZTU

Next step

Join a free online trial lesson – meet your mentor, then decide.

Group or one-to-one – the choice is yours. We'll send you the price, schedule and start date of the next group on WhatsApp. Lessons are taught in Azerbaijani.

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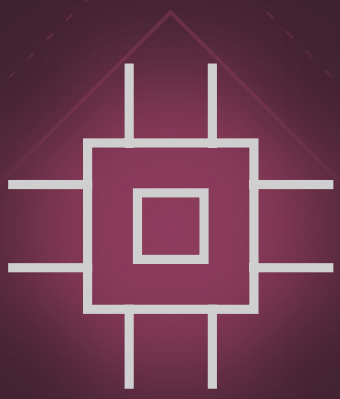

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Learn it yourself, build it yourself.

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