

# FARHAD AGHAYEV

## DOCTORAL RESEARCHER

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### PROFILE

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PhD researcher in AI & Cognitive Science focused on cognitively grounded AI and computational cognitive modeling. Experienced in building and evaluating deep learning models in PyTorch, designing behavioral/HAI experiments, and analyzing results to connect cognitive theory with practical AI systems.

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### PROFESSIONAL EXPERIENCE

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**DIGITAL SKILLS TRAINER, University of Edinburgh** **Nov 2024 to Present**  
Edinburgh

- Delivered hands-on workshops on Python/ML tools (NumPy, SciPy, scikit-learn, Matplotlib; TensorFlow/PyTorch) and digital best practices.
- Created tailored guides, exercises, and slide decks to support skill development and independent learning.
- Provided 1:1 support, troubleshooting, and feedback to improve students' digital proficiency.

**RESEARCH ENGINEER, BP** **Jul 2023 to Aug 2024**  
Baku

- Researched and prototyped ML models (Python, PyTorch) to forecast well performance and support production optimization; validated against historical datasets.
- Built automated data pipelines for subsurface/production data (Pandas, NumPy), improving reproducibility and experiment tracking.
- Partnered with petroleum engineers to translate research into tools and dashboards; documented methods and results for stakeholders.

**ROBOTICS RESEARCHER/ PYTHON MENTOR,** **Feb 2023 to Sept 2023**  
**Azerbaijan Robotics Engineering Academy**  
Baku

- Prototyped robotics and drone automation features (control, perception) using Python and open-source frameworks.
- Designed, tested, and iterated on applications for embedded/edge deployment with attention to scalability and reliability.
- Mentored students in Python fundamentals and best practices; created exercises, code reviews, and mini-projects.
- Planned experiments and documented performance results to guide next-step development.

**AI SOFTWARE ENGINEER, Fundther** **Mar 2022 to Apr 2023**  
Baku

- Developed and maintained backend services with Python/Django and REST APIs, including data models and integrations.
- Shipped features, refactors, and performance optimizations; improved stability with unit/integration tests and documentation.
- Integrated external services and ML components via APIs; collaborated cross-functionally on requirements and delivery.

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### EDUCATION

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**University of Edinburgh** **Sept 2025 to Aug 2028**  
PhD IN AI AND COGNITIVE SCIENCE, Edinburgh

- Research: multimodal AI, computational cognitive modeling, and human-AI interaction.
- Methods: deep learning (PyTorch), NLP, representation learning, and experimental design/analysis.
- Activities: cross-disciplinary seminars and collaborations across Informatics and Cognitive Science.

## University of Edinburgh

Sept 2024 to Sept 2025

MASTER OF ARTIFICIAL INTELLIGENCE, Baku

- Core study in machine learning, deep learning, NLP, and probabilistic modeling.
- Built end-to-end ML systems in PyTorch; evaluated transformer-based architectures.
- Participated in research seminars and team projects focused on real-world datasets.

## UFAZ AI Learning Center

Mar 2024 to Sept 2024

AI Engineering, Baku

- Intensive program covering supervised/unsupervised learning, deep learning, and MLOps fundamentals.
- Developed NLP and computer vision miniprojects; practiced model deployment and API integration.
- Worked in sprints with Git, code reviews, and unit testing.

## Baku Higher Oil School

Sept 2019 to Jul 2024

BACHELOR OF PETROLEUM ENGINEERING, Baku

- Coursework: reservoir engineering, production systems, fluid mechanics, and numerical methods.
- Applied Python for data analysis/simulation; foundational statistics and optimization.
- Senior project: data-driven well performance forecasting.

## Tech Academy

Feb 2023 to Jul 2023

DATA SCIENCE

- Topics: statistics, data wrangling (Pandas), feature engineering, and model selection.
- Built predictive models and visualizations; documented results in notebooks.

## Tech Academy

Nov 2021 to Dec 2022

SOFTWARE ENGINEERING

- Foundations of backend development with Python, REST APIs, and databases.
- Built and deployed services; applied Agile practices, testing, and CI/CD basics.
- Focus on clean code, debugging, and documentation.

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## LINKS

[LinkedIn](#), [GitHub](#)

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## AREAS OF EXPERTISE

Python	NumPy	Pandas	Scientific Python Libraries
Machine Learning	Artificial Intelligence (AI)	Natural Language	(SciPy, scikit-learn,
Deep Learning (PyTorch /	Git	Processing (NLP)	Matplotlib)
TensorFlow)			Neuroscience

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## LANGUAGES

English, German, Azerbaijani