Rasul Alakbarli

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Education

Université Paris–Saclay Expected Sep 2026
Master of Science in Computer Science, *Artificial Intelligence Track* Paris, France
- **Coursework:** Applied Statistics, Optimization, Stochastic Optimization, High-Performance Computing.

French-Azerbaijani University Sep 2020 – Jul 2024
Bachelor of Science in Petroleum Engineering, *GPA: 90/100* Baku, Azerbaijan
- **Coursework:** Fluid Mechanics, Thermodynamics, Probability & Statistics, Linear Algebra.

Experience

Machine Learning Engineer Jun 2025 – Sep 2025
Huawei, Global Technology Solutions — ***Mentor:*** *Dr. Chenwei Wu* *Dongguan, CN*
- Designed and implemented a Smolagents-compatible RL training framework within rLLM, in collaboration with open-source maintainers which reduced integration friction for future agents
- Trained and validated language agents with step- and trajectory-level rewards; established experiment tracking, ablations, and error analysis to drive iterative gains.

Computer Vision Engineer Aug 2023 – Sep 2024
Azercosmos (Space Agency of Azerbaijan) — ***Mentor:*** *Hamid Askarov* *Baku, AZ*
- Developed aerial image segmentation pipelines (U-Net/DeepLab style) and data curation workflows for satellite imagery.
- Built super-resolution modules for satellite scenes; improved visual quality and downstream detection readiness.

Machine Learning Intern May 2023 – Aug 2023
AZAI Tech *Baku, AZ*
- Implemented on-device face detection/recognition using ML Kit and MobileNetV2; optimized preprocessing and model packaging for Android.

Projects

Understanding LLMs (From Scratch) | *PyTorch* GitHub
- Implemented core LLM building blocks from scratch: scaled dot-product attention, multi-head attention, grouped-query attention, byte-level BPE tokenizer
- Built models like: Transformer from "Attention is all you need", and a GPT-2 style decoder-only model.

Personalized Spatial Audio (HRTF Prediction) | *PyTorch* GitHub
- Developed an LSTM-based encoder–decoder model that infers individual HRTFs from ear images and anthropometric cues; implemented training/eval loops and metrics.

Tennis Match Outcome Prediction | *PyTorch, Pandas, Web Scraping*
- Built end-to-end pipeline that collects 30+ player features per match, engineers features, and outputs calibrated win probabilities.
- Attains 62% accuracy on a held-out evaluation set; supports batch inference and logging.

Technical Skills

Languages: English, Russian, French, Turkish, Azerbaijani
Technologies/Frameworks:: Tensorflow, Pytorch, Scikit-Learn, OpenCV, Numpy, Pandas, Matplotlib
Programming Languages: Python, JavaScript, C, C++

Honors and Awards

2nd Place — Huawei TechArena Munich Challenge *Dec 2024*
TotalEnergies Scholarship Recipient — Université Paris–Saclay *2024–2026*
1st Place — Secure Energy Hackathon, Azerbaijan State Oil and Industry University *Dec 2022*
2nd Place — ActInSpace Hackathon *Nov 2022*
1st Place — UFAZ Hackathon, French–Azerbaijani University *Mar 2022*