

# Rauf Ibishov

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## Education

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### BSc. Computer Science

2025 | Baku, Azerbaijan

French-Azerbaijani University (UFAZ)

- CGPA: 98/100
- Double degree program between Azerbaijani State Oil and Industry University and University of Strasbourg
- Coursework: OOP, Data Structures and Algorithms, Frontend Development, Backend Development, Databases, IP Networks, Signal Processing, System Programming, Software Engineering

## Professional Experience

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### Machine Learning Engineer

02/2025 – present | Baku, Azerbaijan

National Artificial Intelligence Center (NAIC)

- Built a query processing system using a quantized DistilBERT model for NER and query classification
- Deployed ML models to production servers and possess a foundational understanding of MLOps and AWS services
- Implemented precision ranking with cross-encoder LLMs and Lightweight Re-ranking Transformer (LRT) models, benchmarking for optimal latency-accuracy trade-offs
- Converted Transformer-based NLP models (DistilBERT, SBERT) to ONNX format for faster inference and reduced memory footprint in production environments
- Implemented mixed-precision training and dynamic quantization strategies, reducing model size by 39% without significant accuracy loss.

### Junior Machine Learning Engineer

06/2023 – 02/2025 | Baku, Azerbaijan

National Artificial Intelligence Center (NAIC)

- Built a hybrid retrieval system combining BM25-based lexical search with dense vector retrieval using SBERT and DPR, fine-tuned on 500k+ domain-specific documents
- Defined metrics like MRR@10, NDCG@5, and precision-recall curves, achieving 85% accuracy in user testing
- Worked with Elasticsearch, Vector databases, and Transformer-based encoder models
- Applied NLP preprocessing techniques (stopword removal, tokenization, etc.) for enhanced text analysis
- Optimized web scraping and data pipelines using parallel programming, boosting processing speed 4x and improving efficiency

## Skills

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**Software Engineering** — Python: FastAPI, Django, Java: Spring Boot, Design Patterns, Data Structures and Algorithms, Git, Docker • **Artificial intelligence** — Python: PyTorch, sklearn, numpy, pandas, matplotlib; ML algorithms, DL algorithms: CNNs, LSTMs, Attention, Transformers, Ensemble Learning, Linear Algebra, Calculus, Statistics and Probability • **Project management** • **Leadership** • **Problem Solving** • **Creativity**

## Additional Information

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*Language:* Azerbaijani (native), Russian (native), English (fluent), French (basic)

*Certificates:* Mathematics for Machine Learning, Machine Learning, and Deep Learning by Coursera

*Achievements:* Pasha Hackathon 2022 (Finalist), UFAZ Hackathon 2022 (2nd place award)