

# Aibar Berekeyev

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## EDUCATION

### Nazarbayev University

*Bachelor of Science in Computer Science*

- CGPA: 3.38/4.00 – Rank: **Top 7%** of class (18 out of 255 students).

Astana, Kazakhstan

Aug 2021 – June 2025

## EXPERIENCE

### Middle Machine Learning Engineer

*EPAM Systems*

May 2025 – Present

*Astana, Kazakhstan*

- Architected and Developed core components for the enterprise GenAI Hub (EVA), an intelligent knowledge platform integrating over **100,000+** internal data sources for **40,000+** users.
- Engineered a multi-agent system (LangGraph) that unlocked complex, multi-step task execution, achieving a **75%** successful completion rate on a new class of business queries.
- Spearheaded R&D on the ColPali model, achieving a **42.57% increase in NDCG@5** for vector search by replacing traditional RAG; deployed the solution into two production chatbots.
- Built a multimodal data pipeline on GCP (Argo Workflows), enabling the GenAI hub to ingest and reason over data from tables, charts and images through VertexAI within documents.

### Junior Machine Learning Engineer

*EPAM Systems*

Jun 2024 – May 2025

*Astana, Kazakhstan*

- Earned promotion to Middle Engineer in **under 9 months** after leading the end-to-end development of an internal AI Compliance Assistant from scratch.
- Developed and deployed the AI assistant using a RAG architecture (FastAPI, LangChain, Qdrant), which now autonomously handles over **500 employee queries weekly**, reducing support volume for Legal & HR.
- Collaborated with business stakeholders to deliver a tool that achieved a **90% user satisfaction rate** and is now used across the **60,000+** employee organization.

### Co-Founder & AI Engineer

*Duken.ai*

Jan 2025 – Present

*Astana, Kazakhstan*

- Co-founded an AI-native SaaS platform for e-commerce, acquiring and retaining **37+ active, paying customers** by achieving product-market fit.
- Engineered the core AI feature for automated ad targeting, which increased customer conversion rates by an average of **33%** and became a key driver for user acquisition.

## HONORS & AWARDS

- Winner**, ISSAI GenerativeAI 2024 (Prize: **\$4,000 USD**)
- 2nd Place**, HackNU 2024 (Prize: **\$2,000 USD**)
- 3rd Place**, Decentrathon 2.0 (Prize: **\$50,000 USD**)

## LEADERSHIP & MENTORSHIP

- Team Mentorship:** Guided and developed a team of **4** Junior Data Scientists/ML Engineers through code reviews and career support.
- Hiring & Growth:** Screened and vetted ML Engineer candidates through **6+** technical interviews, strengthening the team's technical capabilities.
- Onboarding Lead:** Oversaw the successful onboarding and integration of new data scientists.

## TECHNICAL SKILLS

**Programming & Databases:** Python, SQL (PostgreSQL), JavaScript, HTML/CSS, MongoDB

**AI/ML & NLP:** PyTorch, TensorFlow, LangChain, LlamaIndex, LangGraph, RAG, Hybrid Search (BM25), HuggingFace, Sentence Transformers, OpenCV

**LLMs & VLMs:** OpenAI (GPT-4, GPT-4o), Anthropic (Claude 3.5), Google (Gemini), E5-Large, MxBai, GTE-Large, ColPali, Qwen

**Cloud & DevOps:** GCP, AWS, Docker, Kubernetes, GitLab CI/CD, Argo Workflows, Helm

**Vector Databases:** Qdrant, Redis, ChromaDB, Zilliz

**Frameworks & Tools:** FastAPI, Next.js, Git, Pydantic, Ruff, Pyright, Uvicorn