

# Al-Farabi Nagashbayev

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Problem solver with Machine Learning skills ([CV](#), [NLP](#), [GenAI](#)).

Complex projects from conception to deployment.

## EXPERIENCE

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### Machine Learning engineer at NobleLife

Mar 2025 - Now

- Telegram bot powered by GPT-4 agent with RAG system.
- Multiagent system to fully automate sales in CRM

### Machine Learning engineer at

Jan 2024 - Mar 2025

- Telegram bot powered by GPT-4 agent with RAG system.
- Image search using CLIP Embeddings and developed a pipeline for adaptive captcha recognition.
- Image classification model to automate and standardize image quality assessments.
- MVP for AI-based assistant for career consulting (React, Azure, GPT).
- Fine-tuned version of LLama for multilanguage address normalization.
- PDF document processing system using GPT and RAG.

### Python ML Engineer at *Turing.com* | | No 1 AGI company in Silicon Valley (NDA)

Nov 2022 - Jan 2024

- Contributed to GPT-4 functionalities within virtualized environments and Virtual Machines.
- Conducted peer reviews, elevating team performance and code quality through detailed feedback and guidance to a group of developers.

### Machine Learning Engineer at *Flying Bird Inc.*

Dec 2021 - Oct 2022

- Integrated Tesseract and EasyOCR, achieving a 30% automated document processing.
- Developed a Named Entity Recognition system utilizing spacy library and achieved 85% accuracy.
- Architected and led a document processing system, reducing processing time by 50%.
- Mentored and led a Python development team on a RPA project, enhancing productivity and operational efficiency for over 2030 users.

### Big Data Engineer at *JSC Kazakhstan Railways*

Dec 2020 - Dec 2021

- Utilized a columnar database for passenger analytics for COVID-19 tracking, handling over 100M records.
- Deployed Docker containers for a Big Data architecture supporting analytics tools like Pentaho and Apache Superset.

### Machine Learning Engineer at *KazDream Technologies*

Jun 2020 - Nov 2020

- Developed a real-time video streaming and processing pipeline.
- Optimized MTCNN model performance for batch processing on GPU.
- Integrated C++ with Java Native Interfaces for high-speed parallel processing, doubling the efficiency of real-time data handling systems.

### Machine Learning Researcher at *Institute of Smart Systems and Artificial Intelligence*

Jun 2019 - Aug 2020

- Led practical labs for an Advanced Deep Learning course.
- Reviewed academic papers and contributed to ICPR 2020.
- Achieved a 93% IoU in Unet and VAE models for medical imaging, which led to a collaborative project with NeuroCure, Berlin.
- Published a research paper on Alzheimer's disease detection using Capsule Networks, published at ICBSIP 2020.

## SKILLS

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**Programming Languages:** Python, React, Next, C/C++

**Machine Learning:** PyTorch, MXNet, Scikit-learn, Pandas/Polars, Spacy, Hugging Face, LangChain, LlamaIndex

**Data Management:** PostgreSQL, MongoDB

**Development:** AWS, GCP, Azure, git, Jupyter

**Frameworks & Libraries:** FastApi, Flask, OpenCV, Numpy

## EDUCATION

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**Bachelor of Robotics and Mechatronics,** Nazarbayev University

2015 - 2019