Sergey Volkov

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ML Engineer with 2+ years of experience in NLP and CV, awarded in AI hackathons and mathematical Olympiads, with expertise in LLMs, optimization and MLOps

EXPERIENCE

T1 Innotech – Russia's largest IT company   September 2024 – Present

ML Engineer / Python Developer | LLM, gRPC, OpenSearch, S3, Docker, CI/CD, API   *Moscow, Russia*
- Developed a PyPI library and RAG frameworks to accelerate API deployment and enhance data management with many types of document uploads and vector storage
- Maintained a self-service LLM platform, optimizing LLM and ensuring high availability through containerization and orchestration
- Tested various architectures and implemented enhancements based on findings from scientific research

Yandex – *a leading search engine and technology company in CIS*   June 2024 – September 2024

MLE intern in International Search | BERT, DSSM, LLM, Labeling Pipelines, SQL   *Moscow, Russia*
- Developed offline and online e-commerce query classifiers and built pipelines for labeling and evaluating
- Fine-tuned LLMs and optimized prompts for generation tasks, enhancing quality by significantly improving classification precision and recall
- Created a Google parser and enrichment tool to capture full SERP and highlight object answers, achieving competitive performance in SbS tests

MTS – *one of Russia's top three mobile operators*   September 2023 – June 2024

Data Scientist intern | classical ML, DL, Time Series Analysis, API   *Moscow, Russia*
- Resolved peak load hour classification for communication towers, cutting electricity costs by 9%
- Forecasted time series with Prophet, scikit-learn, CatBoost, XGBoost, and LightGBM, integrating hydropower plant APIs to enhance predictive models

PROJECTS

AI Interview | *Python, PyTorch, Transformers, TTS, FastAPI*   GitHub
- Created a Text-to-Speech-enabled LLM agent for interview preparation that analyzes user responses, generates follow-up questions, and provides performance scores with personalized recommendations

PersonalityMatcher | *PyTorch, OpenCV, Librosa, Whisper, Streamlit, SQLite, Transformers*   GitHub
- Developed a recruitment platform for uploading resumes/business cards, creating job postings, accessing ranked profiles, and leveraging model-based personality analysis (OCEAN, MBTI, Dark Triad)

EDUCATION

Financial University   2021 - 2025

*Bachelor of Data Analysis in Economics and Finance – **GPA: 4.7/5***   *Moscow, Russia*
- Member of a prestigious AI research group supported by Gazprombank

Lovely Professional University   2023

B.Tech in Computer Science and Engineering   *Punjab, India*
- Received a scholarship for exchange program participation

ACHIEVEMENTS

4th Place, Digital Breakthrough - International Stage: Predicted personality types and matched them to professions
2nd Place, Digital Breakthrough - All-Russian Stage: Fine-tuned YandexGPT and built RAG system
2nd Place, Student Olympiad: Covered calculus, algebra, geometry, and probability
4th Place, Nornickel Hackathon: Built multimodal RAG system with ColPali

TECHNICAL SKILLS

Languages: Python, SQL, C, C++, JAX
Frameworks & Libraries: PyTorch, TensorFlow, FastAPI, Transformers, Streamlit, SQLAlchemy
Tools & Platforms: Docker, Kubernetes, PostgreSQL, Git, Kafka, REST API, gRPC
Other Skills: Machine Learning, Deep Learning, Natural Language Processing, Computer Vision, Data Analysis, API Development