

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: Predicted personality types and matched them to professions
- 2nd Place**, Digital Breakthrough: 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 CoPal

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