Vlad Grigorev

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OBJECTIVE

As a young professional with a strong academic background, I am seeking a MLE position to impact real-world applications. With a proven track record of implementing ML models to production and ensuring their scalability, reliability, and maintainability, I am excited to bring my unique blend of academic knowledge and practical experience to the team.

EXPERIENCE

Machine Learning Engineer   June 2023 – Feb. 2024

Fratch.io

- Developed and refined a comprehensive parsing pipeline for CVs with a diverse set of tools including fine-tuned LLMs for feature extraction and topic modeling, HuggingFace, PyTorch and local ML models for OCR (Tesseract), NER (BERT, Transformers), embeddings and face detection. Implemented CV data merging algorithm which enhanced the parsing outcome by 40% above common tools and services.
- Designed and implemented an advanced matching and ranking pipeline for precise freelancer-project alignment, utilizing prompt-engineered LLMs and processing all the textual, numerical, and geo features from parsing. Improved recall to drastically reduce unsubscribes by 4 times, ensuring higher retention.
- Built and owned a production-grade service in Python with Flask, Pydantic, and OpenAPI (Swagger) for clear APIs, encapsulating all matching algorithms and parsers. Ensured reliable and scalable deployment using Docker, Kubernetes, and Google Cloud. Streamlined the user registration process by near real-time CV processing. Led to reduced user input effort by 8-10 times and instant first recommendation.

Machine Learning Engineer   Dec. 2021 – June 2023

Setty.kz

- Implemented a Text-to-Speech model and a custom NLP text normalization pipeline into production on an AWS-like cloud using Docker and Kubernetes. Conducted analytics using SQL and a PostgreSQL database, leading to improvements that increased the adoption of Text-to-Speech service by nearly 70% among CRM and Tech Support teams, reaching over 10,000 end clients.
- Enhanced the CI/CD process and built a robust MLOps pipeline with Bash, DVC, and S3. Resulted in cutting down the deployment time by 8 times and enabled outstandingly fast and seamless scaling.

Computational Physics Research Engineer   Jun. 2019 – Dec. 2021

Joint Institute For High Temperatures

- Developed a numerical algorithm for shock wave computation and adopted a semiclassical toolkit to take into account quantum effects. That significantly improved accuracy yet the processing time is comparable to the classic model. The new algorithm accelerates the computation of the state of matter up to 10-80 times, providing a fast and convenient starting point to research electrical and magnetic properties.
- *Technologies*: Python, Jupyter, Pandas, Numpy, Scipy, Matplotlib, C/C++, Git, Bash, Linux

EDUCATION

Moscow Institute of Physics and Technology   Sep. 2016 – Aug. 2020

BS in Mathematics and Computational Physics, GPA 4.7 out of 5