**Mikus Grosbergs**

Senior Machine Learning Engineer / Data Scientist

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## SUMMARY

I am a seasoned Machine Learning Engineer and Data Scientist with over a decade of experience in AI and ML, specializing in the development and deployment of advanced machine learning solutions across diverse industries. My expertise encompasses the full spectrum of ML operations, from model development and optimization to deployment and monitoring, with a strong focus on leveraging cutting-edge technologies to drive business innovation and efficiency.

## SKILLS

**Programming Languages:** Python, Java, Rust, JavaScript/TypeScript, C++

**ML Frameworks:** PyTorch, TensorFlow, scikit-learn, NumPy, Pandas, JAX, Keras, XGBoost, LightGBM, CatBoost

**MLOps Tools:** AWS, GCP, Azure, MLFlow, Comet ML, Databricks, Apache Spark, Kafka, Flink, Snowflake

**LLM Technologies:** OpenAI, Anthropic, Azure OpenAI, Mistral, BERT, GPT, LLaMA

**Data Science Tools:** Pydantic, Pandas, PySpark, BigQuery

**Web Frameworks:** FastAPI, Flask, Django, React.JS, Next.JS

**Databases:** PostgreSQL, MongoDB, Redis, Qdrant, Pinecone, Milvus

**CI/CD & Orchestration:** Git, Jenkins, Docker, Kubernetes, Terraform, Airflow, Kubeflow

**API Design:** REST API, GraphQL

**ML Inference Optimization:** TorchServe, NVIDIA TensorRT, KServe

## PROFESSIONAL EXPERIENCE

### InsoftAI - Principal Machine Learning Engineer

4/2024 - Present

* Spearheaded the development of an advanced Campaign Optimization Engine, leveraging proprietary AI models to automate and optimize digital ad campaigns, achieving a 30% increase in click-through rates and a 40% reduction in manual input.
* Implemented custom LLMs and computer vision techniques to enhance audience targeting and ad creation, resulting in a 25% improvement in campaign performance metrics.
* Collaborated with cross-functional teams to integrate reinforcement learning and A/B testing methodologies, optimizing real-time click-through rates and email marketing automation.
* Designed and deployed a robust ML Ops pipeline using AWS SageMaker and Hugging Face Transformers, enhancing model deployment efficiency and reducing latency by 50%.
* Developed and fine-tuned models using PyTorch and TensorFlow, achieving a 20% increase in model accuracy and predictive performance.
* Led the integration of advanced evaluation metrics and continuous monitoring solutions, improving model reliability and performance by 15%.
* Mentored junior engineers, fostering a culture of innovation and continuous learning within the team.

### Simform - AI/MLOps Technical Lead & Senior AI/ML Engineer

9/2020 - 3/2024

* Architected and implemented a modular ML workflow for a healthcare project, integrating FHIR, HL7, and EHR systems, resulting in a 35% improvement in compliance issue detection.
* Engineered a real-time recommender system for fashion retail, utilizing a two-tower model and advanced ML techniques, enhancing user engagement by 40%.
* Developed a scalable ML infrastructure on AWS ECS and SQS, achieving a 52% reduction in operational costs through dynamic scaling and efficient resource utilization.
* Integrated advanced ML Ops practices, including CI/CD, model registries, and experiment tracking, ensuring system reproducibility and reliability.
* Enhanced recommendation accuracy by 20% through the integration of NDCG, Precision@K, and Recall@K metrics.
* Deployed real-time predictive models using KServe on Kubernetes, improving model responsiveness and scalability.

### Lattimore and Friends - AI Full Stack Engineer

9/2018 - 8/2020

* Developed a TTS and STT solution with real-time API exposure, improving voice synthesis accuracy and user experience by 30%.
* Built a forecasting system for energy consumption, achieving a 25% increase in predictive accuracy and operational efficiency.
* Implemented a real-time financial question answering system using RAG/TAG, enhancing user engagement by 20%.
* Designed a streaming pipeline for financial news monitoring, improving data retrieval efficiency by 50%.
* Automated complex workflows with Apache Airflow, reducing processing time by 50% and increasing data handling reliability.

### Yam.lv - Full Stack Developer/Assistant

4/2016 - 5/2018

* Led the development of AI-driven chatbots, achieving a 90% user satisfaction rate and enhancing user engagement.
* Improved project performance scores significantly through expertise in modern web technologies, enhancing user experience.
* Assisted in product development, increasing customer satisfaction and retention by 17% through strategic upgrades.

## EDUCATION

### Riga Technical University - Bachelor's Degree in Computer Science

2011 - 2014