MARKOU ELENI

Experienced Machine Learning Engineer

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ABOUT ME

I am a Machine Learning Engineer with a track record of building production-grade ML systems across classification, pricing, and recommendation use cases. I've worked on multilingual classification at scale, led cross-functional ML teams, and deployed real-time models with full observability.

I enjoy solving hard ML problems, collaborating across product, data, and engineering. Open to roles where I can contribute to meaningful product impact, and collaborate with strong cross-functional teams.

EXPERIENCE

Senior Machine Learning Engineer

Captify

📅 Oct 2023 – present   📍 London, UK/Remote

- Built scalable multilingual classification models across 600+ categories using transformer-based and embedding-based approaches.
- Designed statistical frameworks combining LLM-generated relevance scores with performance metrics for model evaluation.
- Delivered sensitivity classifiers for GDPR/CCPA compliance via zero-/few-shot LLM techniques.
- Standardized reusable ML components through company-wide RFCs.

Skills: Python, SQL, PyTorch, Hugging Face, ONNX, vLLM, Spark (batch/streaming), Databricks, MLflow, Kafka, Aerospike, AWS, Kubernetes, Mesos, Prometheus, Grafana, GitHub Actions, TeamCity CI

Engineering Manager/Lead Engineer

FreeNow Group

📅 Feb 2022 – Oct 2023   📍 Hamburg, DE/Remote

- Led a distributed ML team focused on pricing across Latin America.
- Defined quarterly goals with product and business stakeholders.
- Balanced delivery with team growth through 1:1s, feedback, and mentorship.

Senior Machine Learning Engineer

FreeNow Group

📅 Nov 2020 – Feb 2022   📍 Hamburg, DE/Remote

- Built and deployed deep learning models for real-time dynamic pricing.
- Partnered with data engineering on feature stores and CI/CD for retraining.
- Integrated models into production with monitoring and performance tracking.

Skills: Python, SQL, Spark batch/streaming, Pytorch, Hugging Face, Github Actions, KubeFlow, Prometheus, Grafana, Kubernetes, AWS, kafka, Argo CD, Argo Workflows, Airflow, BentoML

Senior Machine Learning Engineer

METIS

📅 Jun 2020 – Nov 2020   📍 Athens, GR

Skills: Python, Java, SQL, Tensorflow, Databricks, MLFlow, Prometheus, Kafka

Machine Learning Engineer

VAIX - acq by SportsRadar

📅 Mar 2019 – Apr 2020   📍 Athens, GR

Skills: Python, SQL, Tensorflow, Keras, Rancher, Docker, Tensorflow Serving, FastAPI, Rest APIs, GRPC

Data Scientist

Blendo.co - acq by Rudderstack

📅 Feb 2017 – Mar 2019   📍 Athens, GR

Skills: Python, SQL, Snowflake, Redshift, Postgres

EDUCATION

M.Sc. in Quantum Computing and Quantum Technologies

Democritus University of Thrace

📅 Starting Sep 2025

M.Sc. in Business Analytics

Athens University of Economics and Business

📅 Sept 2016 – Dec 2018

- Grade: 9.16/10.00 (Distinction), 2nd highest GPA.

M.Eng. in Electrical & Computer Engineering

National Technical University of Athens

📅 Sept 2011 – Mar 2016

- Grade: 7.62/10.00

PUBLICATIONS

👥 Conference Proceedings

- Michail, Papadimitriou et al. (2021). "Multiple-Tasks on Multiple-Devices (MTMD): Exploiting Concurrency in Heterogeneous Managed Runtimes". In: *Proceedings of the 17th ACM SIGPLAN/SIGOPS*. VEE 2021. Association for Computing Machinery, pp. 125–138.