

Nikiforos Mandilaras

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Work Experience

Taboola

Machine Learning Engineer - Tech Lead

Remote - Subcontractor at Deeplab

Nov. 2021 – Present

- Working with state of the art algorithms and technologies in a large scale Recommender System.
- Developed a new candidate generation model using Vespa, leveraging a two-tower architecture to efficiently provide online ranking of suitable items.
- Delivered an incremental learning framework with 12x faster training and deployment cycles, achieving revenue lift.
- Part of the algo expert team, leading high-priority initiatives, designing workflows, and providing guidance and code reviews for the rest of algo department.

Ubitech

Machine Learning Engineer

Remote

June 2021 – Nov. 2021

- Participated in research activities and designed solutions for improving efficiency in smart-grid environments, including self-consumption optimization, energy savings estimation, and flexibility prediction.

Intracom Telecom

Data Scientist / Big Data Engineer

Athens, Greece

May 2018 – May 2020

- Designed and implemented machine learning algorithms, concerning new smart features for company's products (e.g. load forecasting, grid optimisation, resource allocation).
- Developed Big Data applications for telco and banking clients using the Hadoop ecosystem, including high-throughput ingestion pipelines and complex data analysis.

Education

National Technical University of Athens

Athens, Greece

- MSc. in Data Science and Machine Learning, 9.61/10

Oct. 2018 – Aug. 2020

Master Thesis in Resource Allocation with Deep Reinforcement Learning Methods.

- Integrated Master in Electrical and Computer Engineering, 8.44/10

Sept. 2012 – Feb. 2018

Major in Computer Science: Software, Computer Systems & Networks - Master Thesis in the area of Big Data.

Technical Skills

Prog. Languages: Python, Java, C/C++

CI/CD: Airflow, Docker, Jenkins, GitLab

Deep Learning: PyTorch, TensorFlow, Keras

Practises: Design Patterns, Agile Methodologies

ML & Big Data: Apache Spark, Kafka, Impala, HBase, Sklearn, Pandas, Numpy

Paradigms: Object Oriented, Functional

Web Developing: JavaScript, React, REST

DataBases: BigQuery, Vespa, MongoDB, Elastic

App Frameworks: Django, Spring

Selected Projects

Deep Reinforcement Learning: Developed a RL agent for managing last-level cache sharing in multi-core systems, improving SLA performance on a critical service and accelerating best-effort applications by 4x.

Self Supervision: Created sophisticated embeddings that improved recommendation accuracy, boosting revenue for users with poor signal history.

Customer Satisfaction Indexes: Delivered insights for millions of telco subscribers using Apache Spark, overcoming complex data issues.

Additional Info

Languages: English (C2) & French (B2)

Honors: C. Papakyriakopoulos Math Award & N.

Military Service: Fulfilled Sept. 2020 - June 2021

Kritikos Scholarship

Publications

P. Katsileros, N. Mandilaras et. al. An Incremental Learning framework for Large-scale CTR Prediction. 16th ACM Conference on Recommender Systems. RecSys '22 - Seattle, WA, USA.