

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.
- Delivered an incremental learning framework that enabled significantly faster training and deployment cycles (x12 speedup) and in the same time achieved a consistent revenue lift over multiple traffic segments.

Ubitech

Machine Learning Engineer

Remote

June 2021 – Nov. 2021

- Participation in research activities and designing solutions (eg. self-consumption optimization, energy savings estimation, flexibility prediction) for a more efficient energy consumption plan, in modern smart-grid settings.

Intracom Telecom

Data Scientist / Big Data Engineer

Athens, Greece

May 2018 – May 2020

- Design, implementation, experimental assessment and deployment of machine learning algorithms, concerning new smart features for company's products (e.g. load forecasting, grid optimisation, resource allocation).
- Processing and analysis of vast amount of data in Hadoop environments. SW development for Big Data architectures.
- Work experience with real-world data from telco and banking industries.

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: Implementation of a Deep Reinforcement Learning agent, that is capable to share the last-level-cache of a multi-core system, between a Latency Critical Service and a number of Best Effort apps. The agent by utilising the DQN family of algorithms, achieved to keep the SLAs violations of the critical service below 3% and at the same time succeeded even a 4x speed up for the BE apps.

Self Supervision: Creation of sophisticated embeddings that boost similarity between users interacting under related context. This approach improved quality of recommendations and led to increased revenue from users with poor signal history.

Customer Satisfaction Indexes: Accomplish to deliver a flow of valuable insights about millions of telco subscribers, overcoming a plethora of issues present on data, by employing the power of Apache Spark.

Languages

English: Michigan Proficiency (C2)

French: Sorbonne (B2)

Additional Info

Military Service: Fulfilled Sept. 2020 - June 2021

Erasmus+: Participation in youth exchange projects

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.