Odysseas Krystalakos
AI Engineer

Work Experience

Data Scientist/Engineer, MX3D, Amsterdam   Oct. 2020 – Present
  - R&D for data-driven approaches for 3D printing with metal
  - Data analysis and modeling with electrical DC data
  - Development of automated pipelines for in-process data collection from multiple sensors
  - Elasticsearch setup for log management and productivity insights
  - Python software development and testing

Intern ML Researcher, Crownstone, Rotterdam   Oct. 2019 – Jun. 2020
  - Research and development of models for automatic electrical appliance identification
  - Feature extraction and modeling of high-voltage AC time-series
  - Development of Python package for automatic model training and testing

Teacher's Assistant, Radboud University, Nijmegen   Mar. 2019 – Jul. 2020
  - Lectures and student assistance for courses in AI and statistics

Freelancer Software Engineer   Jun. 2014 – Dec. 2018
  - Software development on a per-project basis for small companies and startups
  - Topics computer vision, machine learning prototyping and front-end software development

Library software support, Aristotle University, Thessaloniki   Mar. 2019 – Jul. 2020
  - Support of librarian software and hardware with contributions in open-source librarian software

Education

MS Artificial Intelligence, Radboud University, Nijmegen   Sep. 2018 – Jul. 2020
  Specialization on Cognitive Computing with electives on Neuroscience and Philosophy.
  External Thesis on Machine Learning for Automatic Electrical Appliance Identification.

BSc Informatics, Aristotle University, Thessaloniki   Sep. 2013 – Feb. 2018
  Specialization on Informational Systems with electives on AI and Deep Learning.
  Master Thesis on deep learning models for Non-Intrusive Load Monitoring.
  Research work that resulted in three conference publications

Skills

Main Proficiencies: ML/DL for time-series, modelling, data analysis, software engineering and testing
Programming Languages: Python, Typescript, Rust
Frameworks/Platforms: PyTorch, Tensorflow, Pandas, React, Linux/Unix, (No)SQL, Git, Docker, AWS, Ansible, ElasticSearch, Matplolib, Plotly,
Professional Skills: Agile, SCRUM master
Languages: English(Fluent), Greek (Native), Dutch(Elementary)

Interests

Research Interests: Machine Learning for Sensors, Smart Buildings & IoT, Privacy & AI Ethics
Personal Interests: Music production, bicycle touring, 3D-printing, open-source software

Academic Publications

1. N. Batra, R. Kukunuri, A. Pandey, R. Malakar, R. Kumar, O. Krystalakos, M. Zhong, P. Meira, O. Parson, "Towards reproducible state-of-the-art energy disaggregation", in Proceedings of the 6th ACM International Conference on Systems for Energy-Efficient Buildings, Cities, and Transportation (2019)
2. O. Krystalakos, C. Nalmpantis, and D. Vrakas, "Sliding Window Approach for Online Energy Disaggregation Using Artificial Neural Networks," in Proceedings of the 10[th]Hellenic Conference on Artificial Intelligence (2018)
3. C. Nalmpantis, O. Krystalakos, and D. Vrakas, "Energy profile representation in vector space," in Proceedings of the 10[th]Hellenic Conference on Artificial Intelligence (2018)