

DATA SCIENCE · MACHINE LEARNING

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Employment

DATA ENGINEERING & MACHINE LEARNING OPERATIONS

Athens, Greece

SeaQuest Marine Technologies

2022 - Present

- Designed a complete solution for data ingestion, storing, pre-processing and analytics for marine operations on Microsoft Azure.
- Implemented a Multivariate Time-Series Graph Attention Neural Network to perform unsupervised anomaly detection on IoT data.
- · Designed and deployed a PostgreSQL database to feed processed data into a monitoring dashboard's back-end.

POST-MSC RESEARCHER Athens, Greece

Physics Department, National and Kapodistrian University of Athens

2021 - 2022

- Followed up on Master Thesis research, by extending the developed code to account for more complex effects.
- Developed Python & Julia code to study the non-analytical solutions of spin-orbit coupled superconducting systems.

MILITARY SERVICE Greece & Cyprus

Signals Arm

- Mandatory 9-month service after finishing BSc studies.
- Built a small-scale on-premises MySQL database to store staff information.
- Developed Python code for automatic daily posts allocation.

Skills

Python: PyTorch, TensorFlow, JAX, Flax, OpenCV, scikit-learn, NumPy, pandas, seaborn

Coding R: data.table, XGBoost, plotly, ggplot2

Julia: TensorFlow, ScikitLearn, DataFrames

SQL: PostgreSQL, MySQL

Microsoft Azure Ecosystem (Microsoft Certified): Databricks, IoT Hub, Event Hubs, Stream Analytics, Data Lake Gen 2,

Cloud Machine Learning, Cognitive Services

Others: InfluxDB, IBM Db2, Grafana

Tools Apache Spark (PySpark API), Docker, Microsoft Power BI, Google Charts, Git, LaTeX

Languages Greek (mother tongue), English (C2), German (Beginner)

Education

MASTER OF SCIENCE IN DATA SCIENCE & MACHINE LEARNING

Athens, Greece

National Technical University of Athens

2021 - 2023

- Currently working on MSc Thesis "Construction of a complete marine data science pipeline: from data collection to model deployment". Running average grade: 9.89/10
- Noteworthy courses: Algorithmic Data Science, Big Data, Data Driven Models, Data Mining, Deep Learning, Machine Learning, Parallel Architectures, Pattern Recognition, Statistical Modeling, Stochastic Processes and Optimization

MASTER OF SCIENCE IN PHYSICS

Athens, Greece

National and Kapodistrian University of Athens

2019 - 2021

- $\bullet \ \ \text{Graduated with grade 10/10 (Excellent) from the Physics Department's Condensed Matter Physics Section.}$
- Developed tight-binding code to simulate topological superconducting systems (MSc Thesis).
- Noteworthy courses: Computational Physics, Statistical Physics

BACHELOR OF SCIENCE IN PHYSICS

Athens, Greece

National and Kapodistrian University of Athens

2014 - 2018

- Graduated with grade 8.98/10 (Excellent) from the Physics Department's Nuclear & Particle Physics Section.
- Studied quantum information loss in black-hole systems described by semi-classical fields (BSc thesis).

Publications

FORECASTING PM2. 5 CONCENTRATION IN PORT-CITIES

September, 2022

We constructed a general framework for PM forecasting, employing publicly available PM measurements from low cost sensors and open meteorological data, with the aid of machine learning algorithms. In particular, we trained a Long Short-Term Memory (LSTM) Neural Network that provides a level of interpretability through an attention-based mechanism.

Honors & Awards

International Aerosol Conference

2022	Kaggle Expert , Awarded in the largest Data Science platform (Google LLC's subsidiary)	Remote
2021	49th Bodossaki Foundation Scholarships Programme , Scholarship for post-MSc research	Athens, Greece
2020	48th Bodossaki Foundation Scholarships Programme , Scholarship for Master Thesis research	Athens, Greece