

Nikolaos Kokosis

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Summary

Aspiring Data Scientist with a solid foundation in Statistics and an MSc in Cybersecurity & Data Science. Experienced in applying Python, SQL and various data analysis libraries to solve real-world problems through hands-on projects. Eager to apply my skills in data science, data engineering and data analysis, contributing to innovative solutions and driving value in dynamic work environments.

Work Experience

Data Science Research Associate

Remote

University of Piraeus

Nov 2023 - Feb 2025

- Collaborated with a team of researchers to analyze and preprocess complex time series datasets, enhancing data quality and predictive accuracy.
- Researched and developed methodologies for forecasting electric vehicle charging demand, achieving a forecasting **RMSE** of **3.22** KW.
- Implemented a Hybrid LSTM neural network to predict station occupancy, achieving a high mean **F1-score** of **96.29%** across **27** charging stations.

Data Entry & Operations Assistant

Trikala, Greece

Kotoulas Energy S.A.

Feb 2024 - Oct 2024

- Utilized the company's proprietary Galaxy software to input, organize and retrieve data, streamlining invoicing and record-keeping.
- Managed and updated customer data using the Galaxy database system, ensuring accuracy and data integrity to support operational decisions.
- Identified trends in sales and customer behavior through detailed data registration and reporting, supporting business strategy improvements.

E-Advisor Intern

Athens, Greece

Alpha Bank

June 2020 - Dec 2020

- Developed strong analytical and communication skills while assisting clients with digital banking services.
- Strengthened interpersonal and problem-solving skills, elevating customer satisfaction in a hands-on internship role.
- Gained insights into the financial industry and honed problem solving abilities.

Projects

Temporal Network Analysis and Link Prediction

Jun 2023 - Nov 2023

- Performed temporal network analysis and link prediction on a **63.5M** row dataset, utilizing time-aware centrality measures and three data creation strategies. Achieved **86.56%** accuracy with an **ANN**, surpassing **LR (79.88%)** to enhance network dynamics understanding and connection prediction.
- Technical Skills:** Python, NetworkX, Network Analysis, Temporal Dynamics, Machine Learning, Model Evaluation

Maritime Data Analysis and Vessel Location Prediction

Jan 2023 - Sep 2023

- Developed a comprehensive database from **raw AIS data** collected at the University of Piraeus, followed by EDA and data cleaning. Leveraged this refined dataset to build a **Bi-GRU** predictive model, achieving an RMSE of **23.21** meters, effectively anticipating vessel locations for **35** vessels.
- Technical Skills:** PostgreSQL, QGIS, Python, GeoPandas, Data Cleaning and Enrichment, Deep Learning

Technical Skills

Programming Language

Experienced: Python | MATLAB | LaTeX

Familiar: Scala | HTML | CSS

DBs & Geospatial Tools

PostgreSQL | MongoDB | QGIS | PostGIS

Data Analysis & BI Tools

SAS | Power BI | SPSS | Microsoft Excel

Big Data & Develop Tools

Apache Spark | Git | Jupyter Notebook

Publications

Kokosis N., Theodoridis I., Chondrodima E., Kontoulis I. (2025) **"Predictive Analytics Methods with Applications on Electric Vehicles."** Master Thesis, University of Piraeus, Dione Repository (2025). [\[Online Resource\]](#)

Education

University of Piraeus

2022 - 2025

MSc in Cybersecurity & Data Science

University of Piraeus

2015 - 2022

BSc in Statistics and Finance

Languages

- English** Fluent (C2)
- German** Beginner (A1.2) — Currently learning
- Greek** Native