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.

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		

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 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 and 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.

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

Publications

Kokosis N., Theodoridis I., Chondrodima E. and 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 - Present*

MSc in Cybersecurity & Data Science

University of Piraeus *2015 - 2022*

BSc in Statistics and Finance

Languages

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

References available upon request.