

# 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 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

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

- Thesis topic:** Predictive Analytics Methods with Applications on Electric Vehicles

This thesis supported an EU-funded smart city initiative by developing predictive models using real-world time series data from 27 EV charging stations.

- 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%**.

### University of Piraeus

2015 - 2022

BSc in Statistics and Finance

- 4-year program with a focus on Statistics, Insurance, Demography, Economics and Mathematics.

# Languages

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