



# Nikolaos Kokosis

Lichtenberg, 10367, Berlin, Germany

+49 1631837134 | nikos.kokoshs97@gmail.com | LinkedIn | GitHub | Portfolio

## 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

- Managed and updated customer data using the Galaxy database system, ensuring accuracy and data integrity to support operational decisions.
- Analyzed customer purchasing behavior after **price adjustments of 5–15%**, identifying trends that influenced fuel consumption and sales.
- Created **weekly and monthly** performance reports, delivering insights that helped the owner optimize pricing strategy and contributed to a **10–20% improvement** in price-change decision speed.

### 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

<b>Programming Language</b>	<b>Experienced:</b> Python   MATLAB	<b>Familiar:</b> Scala   HTML   CSS
<b>DBs &amp; Geospatial Tools</b>	PostgreSQL   MongoDB   QGIS   PostGIS	
<b>Data Analysis &amp; BI Tools</b>	SAS   Power BI   SPSS   Microsoft Excel	
<b>Big Data &amp; Develop Tools</b>	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

### MSc in Cybersecurity & Data Science

2022 – 2025

University of Piraeus

- 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%**.

### BSc in Statistics and Finance

2015 - 2022

University of Piraeus

# Languages

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