Kokosis Nikolaos

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Summary_

Aspiring Data Scientist with a strong foundation in Statistics, currently pursuing an MSc in Cybersecurity and Data Science. Through hands-on projects, I have developed expertise in Python, SQL and various data analysis libraries, which I leverage to extract meaningful insights from complex datasets in real-world applications. Eager to leverage my skills to a dynamic work environment, aiming to be a valuable asset to the organization I join.

Work Experience _

Data Science Research Associate

Remote

University of Piraeus

Nov 2023 - Present

- Collaborated with a team of researchers to analyze and preprocess complex datasets, enhancing data quality and predictive accuracy.
- Implemented a Hybrid LSTM neural network to predict station occupancy, achieving a high mean F1-score of 96.29% across 27 charging stations.
- Researched and Developed methodologies for forecasting daily, weekly and monthly electric vehicle charging demand, leading to a new daily forecasting approach that reduced RMSE by 92.74%.

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 - Oct 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

May 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

Clustering and Predictive Modeling of US Road Accidents (2016-2023)

Nov 2022 - Feb 2023

- Analyzed US road accidents (2016-2023) using clustering and predictive modeling to assess severity factors. Employed K-Means, DBSCAN and ANN to uncover patterns and develop a predictive model, enhancing insights into accident dynamics and informing safety measures.
- Technical Skills: Python, Statistical Analysis, Imbalanced Dataset Handling, PCA, Machine Learning

Skills

Programming Language Python, SQL, MATLAB, LaTeX

Libraries & Frameworks

Pandas, GeoPandas, MatPlotLib, Seaborn, Folium, NumPy, Scikit-Learn, TensorFlow, Beautiful Soup, NetworkX

BI & Visualization Tools SAS, Power BI, SPSS, Microsoft Excel

Education

University of Piraeus

Athens, Greece

MSc in Cybersecurity & Data Science

Oct 2022 - Current

2-year program with a focus on Data Science and Information Technology, aligned with the skills and expertise required for a Data Scientist role.

University of Piraeus

Athens, Greece

BSc in Statistics and Finance

Sep 2015 - March 2022

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

Languages_

English C2 Proficiency Greek Native