Antonios Mitsis

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EXPERIENCE

AI/ML Python Developer Feb. 2025 – present
European Dynamics *Athens, Attiki*
- Azure Databricks
- Apache Spark

Private Tutor Sep. 2022 – Jun. 2024
Freelance
- Teaching mathematics and physics to secondary level students.

Data Analyst Trainee Jun. 2023 – Aug. 2023
KreativStorm *Berlin, Germany(Remote)*
- Conducted data cleaning, preprocessing, and exploratory data analysis using R and SPSS.
- Applied statistical hypothesis testing to evaluate patterns and relationships in real-world datasets.

EDUCATION

National Technical Univercity of Athens (NTUA) Zografou, Athens
MSci in Applied Mathematical and Physical Sciences *Sep. 2019 – Sep. 2024*

High School Pefki, Athens
  Sep. 2016 – May 2019

PROJECTS

Machine Learning on Diabetes Prediction | *Python, Julia — GitHub*
- Built predictive models for diabetes risk using real-world datasets, focusing on feature engineering and handling imbalanced data.
- Performed feature engineering, including handling imbalanced data and normalizing attributes.
- Implemented various machine learning algorithms such as Neural Networks, Random Forests, and Gradient Boosting.
- Created an interactive web application using Dash.jl for real-time predictions, showcasing interpretability through SHAP values.

Amazon Stock Forecasting | *Python — GitHub*
- Developed an LSTM (Long Short-Term Memory) neural network for forecasting Amazon stock prices, leveraging 20 years of historical time series data to predict future market trends.
- Implemented model using PyTorch, optimizing hyperparameters and incorporating advanced techniques such as data normalization and dropout for improved accuracy and generalization.
- Achieved high forecasting accuracy, demonstrating proficiency in time series analysis, deep learning techniques, and practical application of machine learning in financial data.

ADDITIONAL TRAINING

Project Future: Business Intelligence and Machine Learning | *ReGeneration* Nov. 2024 - Jan. 2025
- Learned database management systems, focusing on SQL Server for data modeling, indexing, and query optimization.
- Designed and implemented a data warehouse, transforming an OLTP database into a star schema and optimizing it for analytics.
- Developed an interactive Power BI dashboard linked to the warehouse, enabling real-time business insights.
- Built a machine learning pipeline to categorize employee performance, integrating predictive analytics into business intelligence.

TECHNICAL SKILLS

Languages: Greek (Native), English (CPE)
Programming Languages: Python, R, SQL, Power BI, Julia, SPSS, Minitab, Matlab, Microsoft Office, Java
Developer Tools: Microsoft Azure, Databricks, Git Version Control, , VS Code, SQL Server, SSMS
Libraries: Python: pandas, NumPy, SciPy, Dash, Seaborn, Matplotlib, Sickit-Learn, TensorFlow, PyTorch
  R: dplyr, MASS, mvtnorm, caret, faraway