

Antonios Mitsis

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EDUCATION

National Technical University of Athens (NTUA)

MSci in Applied Mathematical and Physical Sciences

Zografou, Athens

Sep. 2019 – Sep. 2024

High School

Pefki, Athens

Sep. 2016 – May 2019

EXPERIENCE

Private Tutor

Freelance

Sep. 2022 – Jun. 2024

- Teaching mathematics and physics to secondary level students.

Data Analyst Trainee

KreativStorm

Jun. 2023 – Aug. 2023

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.
- Utilized advanced data analysis concepts to investigate the effects of smoking in England, delivering actionable insights.
- Collaborated in a remote environment and presented findings to stakeholders.

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: Git Version Control, Jupyter Notebook, Google Cloud Platform, VS Code, SQL Server, SSMS

Libraries: Python: pandas, NumPy, SciPy, Dash, Seaborn, Matplotlib, Sickit-Learn, TensorFlow, PyTorch

R: dplyr, MASS, mvtnorm, caret, faraway