Stavros Chatzipavlidis

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stchatz97.github.io/Portfolio

Technical Skills

Languages: Python, SQL
Databases: SQL (MySQL, PostgreSQL), NoSQL (MongoDB)
Data Visualization: Tableau, Power BI
Big Data Technologies: Hadoop, Spark
Cloud Services: AWS, Azure, DataBricks
APIs: REST APIs, HTTP Basics, JSON Parsing

Education

Tilburg University February 2023 – February 2024
MSc Data Science *Tilburg, Netherlands*

University of Macedonia September 2017 – September 2022
BSc Economics *Thessaloniki, Greece*

Experience

Data Analyst September 2020 – September 2022
4yoU *Serres, Greece*

- Performed time series analysis and forecasting with Python to effectively manage excess inventory, prevent overstock, and mitigate stockouts, yielding a 35% improvement in inventory turnover ratios.
- Developed dashboards using Tableau and Power BI, integrating key performance indicators, trend analysis, and interactive filters for real-time insights, resulting in a 25% reduction in price change decision cycle time.
- Conducted A/B testing for price optimization and evaluated promotional discounts, generating a 12% growth in profit margins and an 18% rise in purchase frequency.
- Substituted SQL subqueries with common table expressions and window functions, effectively streamlining data retrieval processes leading to a 50% enhancement in report generation speed.

Projects

Credit Risk Assessment | *Pandas, NumPy, scikit-learn, seaborn, matplotlib* August 2023 – February 2024

- Investigated challenges in a highly imbalanced peer-to-peer lending dataset.
- Deployed and hyperparameter-tuned tree-based models, including XGBoost and CatBoost.
- Integrated class weights and a custom scoring function tailored to varying error costs, optimizing profitability and yielding an increase of 0.79 in G-Mean, 0.24 in Macro-Average F1, and 0.25 in AUC score.
- Attained an 80% decline in misclassifying defaulted loans as non-default, concurrently realizing a 1031% boost in profitability compared to the baseline model.

TFT Riot Games API | *Requests, JSON, Flask, HTML, CSS, Heroku* December 2023 – January 2024

- Leveraged Riot Games' REST API to automate the extraction of gaming insights.
- Utilized JSON parsing and function chaining to retrieve data tailored to user input.
- Mapped in-game data to images, enhancing the visualization of match history details.
- Launched a Flask-based web application with Heroku to showcase match history data with a user-friendly HTML and CSS interface.

House Price Ensemble Regression | *SciPy, scikit-learn, scikit-optimize* November 2023 – October 2023

- Performed preprocessing techniques encompassing feature engineering to generate new features and addressed normality, skewness, and kurtosis assumptions alongside outlier analysis and removal.
- Leveraged Bayesian optimization on Lasso, Elastic Net, Ridge Regression, XGBoost, and CatBoost models.
- Utilized ensemble methods by averaging model predictions to enhance performance, achieving a decrease of $101,169 in RMSE, $73,016 in MAE, and an increase in R-squared by 0.4806.