

FATMA YILDIZ

Data Analyst | Statistics & Computer Science Student

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SUMMARY

Third-year Statistics and Computer Science student with hands-on experience building end-to-end machine learning projects in Python. Proficient in data cleaning, exploratory data analysis, and supervised learning model development. Passionate about applying analytical skills to real-world business problems and actively building a data science portfolio. Seeking internship or entry-level opportunities to contribute and grow within a data-driven team.

EDUCATION

Eastern Mediterranean University

2022 – 2027 (Expected)

BSc in Statistics and Computer Science

Relevant Coursework: Probability & Statistics, Data Mining, Database Systems, Machine Learning, Linear Algebra, Algorithm Design

PROJECTS

Customer Churn Prediction

Python, Scikit-learn, Pandas, Matplotlib

- Built and compared multiple supervised classification models (Logistic Regression, Random Forest, Gradient Boosting) to predict customer churn on a real-world telecom dataset.
- Applied feature engineering and handled class imbalance; evaluated models using ROC-AUC, precision, recall, and F1-score to select the best-performing approach.
- Identified key churn drivers and translated findings into actionable customer retention recommendations.

Credit Card Fraud Detection

Python, Scikit-learn, Pandas, Seaborn

- Developed fraud detection classification models on a highly imbalanced dataset (284K+ transactions); applied preprocessing techniques including normalization and SMOTE oversampling.
- Conducted thorough EDA to uncover patterns distinguishing fraudulent from legitimate transactions.
- Tuned model thresholds based on precision-recall trade-off to minimize false negatives in a cost-sensitive context.

Netflix Content Analysis

Python, Pandas, Matplotlib, Seaborn

- Performed comprehensive EDA on an 8,800+ title dataset, analyzing content trends by year, country, genre, and content type.
- Created multi-layered visualizations to surface business insights on production growth, regional content distribution, and genre popularity.
- Documented findings in a structured notebook suitable for both technical and non-technical audiences.

TECHNICAL SKILLS

Programming:

Python (Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn), SQL, C++

Machine Learning:

Classification, Regression, Random Forest, Feature Engineering, Model Evaluation (ROC-AUC, F1, Precision, Recall)

Data Analysis:

Exploratory Data Analysis (EDA), Data Cleaning, Data Wrangling, Statistical Analysis

Visualization:

Matplotlib, Seaborn, Tableau, Excel Dashboards, Pivot Tables

Tools & DBs: Jupyter Notebook, Git, GitHub, Pandas, RDBMS, Relational Databases

CERTIFICATIONS

IBM Data Analyst Professional Certificate — IBM / Coursera (2025)

Covers: Data Analysis with Python, Data Visualization, SQL, Excel, Tableau, and Capstone Project

LANGUAGES

Turkish: Native | **English:** Professional Working Proficiency