

Feyzi Can Eser

• feyzicaneser@gmail.com • 404-203-2557 • linkedin.com/in/feyzicaneser • feyzijan.github.io

EDUCATION

Georgia Institute of Technology

MS Computational Data Analytics, GPA 4.0

Aug 2023 – Dec 2024

Atlanta, GA

- Key Courses: Big Data & Visual Analytics, Algorithms, Artificial Intelligence, Machine Learning, Time Series

Imperial College London

MEng & BEng Mechanical Engineering, GPA 4.0

Sep 2019 - Jun 2023

London, UK

- Key Courses: Mathematics & Computing, Numerical Methods, Statistics, Optimization, Embedded C

SKILLS

Programming: Advanced Python & SQL, Experience in C++, R, Matlab, Git, Docker, Kubernetes

Data Analytics: Apache Spark, Pandas, NumPy, SciPy, Splunk, Scikit-Learn, TensorFlow, PyTorch

Languages: Turkish (Native), English (Fluent), German (Fluent), Chinese (Pre-intermediate - ongoing learning)

EXPERIENCE

Tesla

Data Engineering Intern, Vehicle Infotainment

May 2024 - Aug 2024

Seattle, WA

- Maintained and expanded ETL pipelines for processing raw vehicle datasets, creating daily jobs with Spark on K8s to analyze audio and connectivity signals and visualizing these in interactive Splunk dashboards
- Built an optimization logic with splunk SPL queries to reduce Spark job failures and spare memory usage by dynamically allocating resources based on analysis of past job logs, driving a 20% cost reduction month over month
- Developed a flexible firmware check architecture in Python to analyze component performances across firmware versions, publishing daily health metrics to various internal APIs to streamline firmware sign-offs

JP Morgan

Corporate Equity Derivatives Trading Intern

Jun 2023 - Aug 2023

London, UK

- Investigated patterns in the volatility premium of convertible bonds, backtesting pricing algorithms in Python to reveal up to 40% unexpected drops in the final months to maturity and advised clients on pre-extension strategies
- Scraped regulatory filings to analyze competitors' strategies for enhanced share buybacks, replicating their execution patterns with Pandas and Seaborn to generate insights and identify improvements for the firm's own modelling

JP Morgan

Market Risk Analyst Intern

Jun 2022 - Aug 2022

London, UK

- Visualized exotic FX option risks in interactive Tableau dashboards that auto-updated with scheduled SQL queries
- Automated manual risk breach monitoring processes with a Python script that analyzed intraday risk data upon email alerts, outputting problematic trades to Excel and visualizing key changes in risk metrics

RESEARCH & TEACHING

Georgia Institute of Technology

Graduate Researcher, Human Computer Interaction Lab

Jan 2024 - Present

Atlanta, GA

- Using electrodermal activity data from wearables to predict IT worker productivity and recommend break times

Head Graduate Teaching Assistant, Data and Visual Analytics

- Resolving programming questions and grading coursework, with subjects covering SQL, Spark, D3.js and Tableau

PROJECTS

Commercial Dataset Builder with Retrieval-Augmented Generation

- Implemented a RAG architecture to build an up-to-date database of firmographic, financial, and public sentiment data, utilizing the Gemini LLM API to extract values from web scraping and Bing API results

Simulated Macroeconomics Laboratory

- Developed an Agent-Based Macroeconomic Model in C++ for evaluating economic policies in custom simulations
- Incorporated workers, firms and banks, modeling their interactions in labor, goods, and loan markets to form a logically consistent digital economy that could be run with over 1 million agents under customizable scenarios

Cancer Treatment Adherence Modeling

- Engineered features from raw medical claim data, fine-tuned an XGBoost classifier and conducted SHAP analysis to predict factors causing adverse drug side effects in lung cancer treatments

INTERESTS

- Reading about ancient history, stoic philosophy, economics, and fantasy, board games, coffee brewing