

Feyzi Can Eser

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EDUCATION

Georgia Institute of Technology

MS Computational Data Analytics, GPA 4.0

Aug 2023 – Dec 2024

Atlanta, GA

- Building expertise in big data analytics, statistical modelling, and ML applications with a practicum and lab projects

Imperial College London

MEng & BEng Mechanical Engineering, GPA 4.0

Sep 2019 - Jun 2023

London, UK

- Specialized in computational science and engineering, graduating with First-Class Honors with an integrated Master's degree

SKILLS

Programming: Advanced Python, Experience in C,C++,R, Matlab

Data Analytics: Apache Spark, Pandas, SQL, Splunk, Visualization with D3.js & Tableau

Machine Learning: Feature Engineering, Hyperparameter Tuning and Model Evaluation with Sklearn, Tensorflow, and PyTorch

Computational Methods: Numerical Analysis, Convex Optimization, Game Playing

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

EXPERIENCE

Tesla

May 2024 - Aug 2024

Data Engineering Intern, Vehicle Infotainment

Seattle, WA

- Built an optimization logic 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
- Created new daily Spark jobs with PySpark to parse out relevant performance metrics for audio and connectivity systems from raw vehicle datasets and visualized these in interactive Splunk dashboards built with SPL queries
- Developed a flexible firmware check architecture in Python to analyze car component performances across firmware versions, publishing daily metrics to various internal APIs for use in signing off on expanding firmware rollouts

JP Morgan

Jun 2023 - Aug 2023

Corporate Equity Derivatives Intern

London, UK

- Investigated patterns in the volatility premium of convertible bonds, backtesting various instruments in Python to reveal an unexpected 40% drop in the final six months before maturity, and advised clients on pre-extension strategies
- Analyzed competitors' enhanced share buyback strategies using webscraping and Pandas, visualized the inferred execution patterns, and identified improvements for a \$50m+ yearly revenue product

JP Morgan

Jun 2022 - Aug 2022

Market Risk Intern

London, UK

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

RESEARCH & TEACHING

Georgia Institute of Technology

Jan 2024 - Present

Graduate Researcher, Human Computer Interaction Lab

Atlanta, GA

- Conducting a research project on using electrodermal activity data from wearable sensors to predict IT worker productivity and recommend optimal break times, currently conducting background research and designing human trials

Graduate Teaching Assistant, Data and Visual Analytics

Atlanta, GA

- Resolving programming questions, grading coursework, and conducting assignment walkthroughs for several hundred students

KOC University

Jun 2021 – Aug 2021

Summer Undergraduate Researcher in Robotics

Istanbul, TR

- Gained expertise in ROS, an open-source robot operating system, and Gazebo, a 3D simulation software, in Linux
- Utilized Python with the MoveIt library to simulate an industrial Panda robot as a capstone project

PROJECTS

Simulated Macroeconomics Laboratory

Nov 2022 - Oct 2023

- Developed an Agent-Based Macroeconomic Model in C++ for evaluating economic policies in custom simulations
- Incorporated workers, firms, banks, and the government, 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

Datathons

Jan 2021 - Present

- 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 the Humana Healthcare Datathon
- Won second place at Imperial AI-Hack by utilizing weather forecast data to predict electricity prices in half-hour intervals

INTERESTS

- Reading and listening to podcasts on ancient history, stoic philosophy, economics, and fantasy, board games, coffee brewing