EGECAN COGULU

Data Scientist

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Senior Data Scientist with 3+ years of experience in product and operational analytics. Expertise in leveraging statistical modeling, machine learning and A/B testing to drive business insights.

SKILLS

Expertise	Statistics, A/B Testing, Causal Inference, Forecasting, Machine Learning
Programming Languages	Python, SQL, MATLAB, C, R, Mathematica
Python Libraries	Numpy, Scipy, Pandas, Scikit-learn, Prophet, Matplotlib, Plotly
Other Tools	Looker, Tableau, Power BI, Git, AWS, GCP

EXPERIENCE

Sr. Data Scientist, Happy Returns, a UPS Company **Nov 2023 - Present**

- Led the design, implementation, and analysis of multi-round A/B tests to evaluate the effects of choice availability on customer behavior, resulting in 4% increased foot traffic for preferred partners.
- Optimized shipping cadence of 10,000 unique shipping centers using statistical modeling and time-series forecasting, saving ∼5% in shipping costs (∼monthly $50,000).
- Collaborated with product and engineering teams on the development of a machine learning-based fraud detection system, improving precision and recall to balance false positives and negatives, resulting in a 30% reduction in fraud-related losses.

Data Scientist, Happy Returns by PayPal **May 2022 - Nov 2023**

- Developed a linear predictive model to forecast usage of shipping supplies for 10,000 locations, resulting in a 80% reduction in stock-outs.
- Created data visualization dashboards and reports using Excel, Tableau and Looker to track success metrics for cross-functional projects that were adopted by multiple departments.

Graduate Researcher, New York University **Sep 2016 - May 2022**

- Collected and analyzed 100s of GBs of image data from electron microscopy experiments, using methods such as peak finding, edge detection, background subtraction, non-linear filtering and feature aligning. Developed interactive tools for 3D visualizations using Jupyter notebooks.
- Analyzed multi-dimensional voltage data as a function of temperature, electric current, magnetic field strength and direction. Extracted fit parameters by modeling the response analytically and numerically.

EDUCATION

New York University, New York **Aug 2015 - May 2022**

Doctor of Philosophy (Ph.D.), Physics

Coursework: Statistics and Data Science, Computational Data Analysis, Statistical and Computational Physics

Bogazici University, Istanbul **Sep 2009 - May 2015**

Bachelor of Science, Mechanical Engineering

Bachelor of Science, Physics (Double Major)

Coursework: Programming with Python, Probability and Statistics, Simulations in Physics, Mathematical Methods