Henry Rodriguez

Financial Data Scientist

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Troy, MI
LinkedIn
GitHub

WORK EXPERIENCE

United Shore

Financial Data Scientist

Troy, MI | 2023 - current

- Leveraged Prophet for time-series forecasting of interest rate fluctuations, achieving a prediction accuracy of 97%.
- Developed a NumPy-based risk model that segmented startup shares, **boosting annual ROI of angel investments by 5.3%**.
- Built MATLAB-based anomaly detection models, discovering and flagging 14% more fraudulent applications compared to past records.
- Integrated the Quandl platform to gain historical trading data and increase efficiency in competitive analysis.

Toyota Technical Center

Risk Analyst

Ann Arbor, MI | 2021 - 2023

- Incorporated Tableau dashboards to visualize risk exposure, helping the team complete compliance analysis 37 minutes quicker on average.
- Evaluated inventory maintenance records with the help of an Azure-based AI model, **mitigating sudden malfunctions of Toyota Entune by 21%**.
- Identified and prevented security vulnerabilities for 16 dealerships, strengthening the company's IT system across Michigan.
- Monitored historical recall data using SQLite, learning common defect trends and lowering warranty claims by 11%.

Eli Lilly and Company

Research Assistant

Ann Arbor, MI | 2019 - 2021

- Assisted seniors in optimizing data processing pipelines with Apache Hadoop, expediting the average computational time for large-scale insulin datasets by 22 minutes.
- Introduced a TensorFlow-based deep learning model to predict patient response to new drug formulations, growing data accuracy by 7.3% in one week.
- Worked with 5+ colleagues to automate Trifacta-based data wrangling workflows, completing every clinical trial dataset 2 days before deadlines.
- Used a Hadoop cluster for secure and organized storage of raw experimental data, allowing the research team to **retrieve information 4 minutes faster**.

SKILLS

- NumPy
- Tableau
- SQLite
- Apache Hadoop
- TensorFlow
- Microsoft Azure
- MATLAB
- Trifacta
- Prophet
- Quandl

EDUCATION

Bachelor of Science
Financial Mathematics
University of Michigan

2015 - 2019
Ann Arbor, MI