ELIJAH WALDRON

(917) 536-7168|ElijahWaldrondata@gmail.com| www.linkedin.com/in/elijah-waldron-data

EDUCATION

Bachelor of Science in Computer Science | Minor in Data Science Anticipated 2025

Rutgers University | Newark, New Jersey| Current GPA 3.7

- ***Relevant Coursework:*** *Probability and statistics, Advanced Data Structures and Algorithm Design, Intensive Programming, Machine learning and statistics, Math for data science 1 and 2, Calculus 1-3*

CODING LANGUAGES

- *Python, Jupyter Notebook, Excel, SQL, R, Firebase, Firebase Analytics, MongoDB, Java, JavaScript, React, C, C#, HTML, CSS, Django*

COMPUTER SCIENCE & DATA SCIENCE PROJECTS

Personal Project: Analyzing Car Crash Data in Maryland

Data Source: Corgis Dataset | Python

- Overview: This project aimed to analyze car crash data from Maryland from almost 200,000 points to identify factors contributing to driver fault. Key steps included data cleaning, preprocessing, visualization, and classification modeling.
- Outcome and Insights: The model achieved a balanced F1 score, indicating effective classification of driver fault under various conditions. Specific factors like poor weather and high-speed limits were strongly linked to driver faults, the model effectively captured both true positives (accurate driver fault identification) and minimized false positives and negatives.

Personal Project: Loggg social media app | React Native, JavaScript, FireBase , Firebase Analytics

- Overview: Developed a mobile app using React Native and Firebase to help users track fitness, personal development, and social goals within group-based communities. The app incentivizes goal completion through logging activities, earning points, and engaging in a social voting system.
- Outcome & Impact: Created a gamified social experience, emphasizing accountability and motivation. Implemented robust backend logic.

WORK EXPERIENCE

Data Scientist

Fiserv| Rutgers | Berkeley Heights NJ, Newark NJ

September 2024 – May 2025

- Managed a big data warehouse with over 1 million data points across multiple databases, by developing scalable ETL pipelines and optimizing data storage solutions.
- Delivered model performance updates to 3 managers, improving decision-making for services used by 50,000+ customers, by tracking key metrics and refining predictive algorithms.
- Analyzed model outputs to identify and report high-risk patterns, by leveraging Python, SQL, and machine learning techniques for anomaly detection.

Research Assistant

Rutgers |National Science Foundation | Newark, NJ

September 2023 - May 2024

- Conducted exploratory data analysis on over 500,000 patient records, by utilizing R and Python to uncover demographic trends affecting healthcare costs.
- Created visual reports to illustrate key demographic patterns, by developing dashboards and data visualizations that improved research clarity for stakeholders.
- Developed a log-linear model to predict patient costs with high accuracy, by incorporating demographic features and implementing a Count Vectorizer to handle sparse data.
- Implemented Natural Language Processing techniques to classify 10 key ICD combinations among patients, by using TF-IDF and LDA to reveal hidden medical conditions and similarities.