Eduardo Benjamin

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BOULDER, CO

OBJECTIVE

Information Scientist with strong programming and data analysis skills. Experienced in automating solutions and managing complex datasets. Seeking an analyst role to apply my technical skill and provide data-backed insights.

EDUCATION

University Of Colorado Boulder | Bachelor of Information Science | 2022 - 2025 | 3.8 GPA

Arapahoe Community College | Associates of Science | 2019 - 2022

SKILLS

PROGRAMMING LANGUAGES & TOOLS: PYTHON, SQL, REACT, RUST, JAVASCRIPT, HTML/CSS, TABLEAU, MERMAID.JS, GIT, AZURE, SKI-KIT-LEARN, PYTORCH, TENSOR-FLOW, API'S, EXCEL, POWERPOINT, WORD

TECHNICAL ABILITIES: PREDICTIVE ANALYSIS, LOAN ANALYSIS, STOCK ANALYSIS, MACHINE LEARNING, FULL STACK DEVELOPMENT, DATABASES

PROFFESIONAL ABILITIES: COMMUNICATION, TEAMWORK, PROBLEM-SOLVINING, SOLUTION-ORIENTED MINDSET

WORK EXPERIENCE

Data Engineer/Buisness Analyst | SitusAMC | Risk Advisory Department | May - August 2024

- Collaborated on **large-scale loan datasets** exceeding $20k loans, with a focus on **enhancing data accuracy** and **improving reporting** efficiency.
- Collaborated on developing Rust-based parser to **translate >50k queries** from proprietary dialect into SQL, **streamlining data processing** and reducing manual workloads. SQL queries used to aggregate data, amortize loans, and generate Standard Monthly Mortgages (SMMs).
- Conducted predictive analysis to forecast loan performance**, supporting strategic decision-making, client success,** and **consulting** on risk assessment.

PROJECTS

CREDIT DEFAULT MODEL

Developed a **predictive model** for loan default using machine learning techniques and **exploratory data analysis**, aimed at supporting financial institutions in risk management and lending strategy optimization. Conducted data cleaning, preprocessing, and **visualizations to uncover key patterns** in loan attributes, such as loan details and credit history. Addressed class imbalance using SMOTE and implemented various models, including a stacking ensemble of XGBoost, CatBoost, LightGBM, and a neural network, achieving an **F1 score of 0.96**.

TECHNICAL ANALYSIS OF INTEL STOCK

Performed an in-depth **exploratory data analysis** (EDA) of Intel stock to **extract valuable insights and key statistics** for stock market forecasting. The analysis serves as the **foundation for a forecasting system** aimed at providing actionable Buy, Sell, or Hold recommendations. Full analysis is available on Kaggle.

FORMULA 1 RESTFUL API

Developing a **RESTful API** to enhance my understanding of API architecture and backend development. The API, built with **Python** and **FastAPI**, provides comprehensive data on Formula 1, including drivers, circuits, and race results, backed by a **PostgreSQL database**. The **React frontend** allows for **efficient data integration including, retrieval and interaction.** Continuously adding features to improve functionality and user experience.

COMMUNITY INVOLMENT

CodingWithKids | Coding Instructor | August 2023 - Present

- Teach programming concepts to children aged 8-14 using Python, Java, HTML, and C#.
- Develop and implement engaging lesson plans to foster students' interest in technology. Any given class consists of; communicating complex ideas clearly and adapting to different audiences.