Eduardo Benjamin

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Boulder, Co

OBJECTIVE

Data-driven analyst with expertise in predictive modeling, data engineering, and process automation within the financial services industry. Successfully streamlined loan data processing for risk assessments, enhancing reporting efficiency and supporting strategic decision-making.

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, PowerBI, Word, Outlook, Excel, Rust, JavaScript, HTML/CSS, Tableau, Git, Azure, Mermaid.JS, TensorFlow, API's

Technical Abilities: Predictive Analysis, Loan Analysis, Stock Analysis, Machine Learning, Full Stack Development, Databases and Data Warehouses, ETL Methodologies

Proffesional Abilities: Communication, Teamwork, Problem-Solving, Solution-Oriented Mindset

WORK EXPERIENCE

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

- **Analyzed Large-Scale Loan Datasets:** Managed datasets exceeding 20,000 loans, improving data accuracy and reporting efficiency through meticulous analysis.
- **Developed Rust-Based Parser:** Engineered a parser to convert a niche internal SQL dialect into standard SQL, streamlining data processing and reducing manual workloads.
- **Data Pipeline Development:** Contributed to building a robust pipeline ensuring seamless data flow and integration, enhancing system reliability.
- **Loan Processing System Design:** Partnered with clients to design and implement loan processing systems, utilizing SQL for data aggregation, loan amortization, and Standard Monthly Mortgage (SMM) generation.
- **Predictive Analysis for Risk Assessment:** Conducted advanced predictive modeling to forecast loan performance, providing actionable insights for risk assessment and strategic planning.

Coding Instructor | CodingWithKids **|** August 2023 - Present

- Teach programming concepts to children aged 8-14 using Python, JavaScript, HTML.
- 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.

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. Utilized **visualizations to uncover key patterns** and discover important trends within features. The final model achieved an **accuracy on 95% and a F1 score of 96%**, validating its performance on the test data.

Comprehensive stock trading model

Developed Machine Learning-Based Trading Model: Designed and implemented a trading model for S&P 500 stocks, **leveraging technical indicators and machine learning algorithms** to predict stock price movements and **generate actionable trading signals**.

Optimized Risk Management Strategy: Adopted a conservative trading approach, limiting trades to around one share per day and achieving a consistent average **profit of 23% annually.**

Analyzed Historical Market Data: Utilized Yahoo Finance data from 2010 to the present, incorporating price trends, volume, and technical indicators to enhance model performance and decision-making accuracy.

Utilized Advanced Data Visualization: Created dashboards and bar charts to showcase portfolio performance, profit percentage, and key stock trends for stakeholders.

Formula 1 RESTful API

Developed a robust Formula 1 **RESTful API using Python and FastAPI**, supported by a **PostgreSQL database for efficient data storage** and retrieval.

Implemented **ETL processes to extract, clean, and load publicly available Formula 1 datasets**, ensuring data accuracy and consistency.

Designed and optimized endpoints to deliver detailed information on drivers, circuits, and race results, supporting advanced query filtering and combinations.

I**ntegrated a React frontend**, enabling seamless user interaction and efficient data retrieval through API integration.