

# Eduardo Benjamin

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Boulder, Co

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## OBJECTIVE

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

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## EDUCATION

University Of Colorado Boulder | Bachelor of Information Science | 2022 - 2025 | 3.8 GPA  
Arapahoe Community College | Associates of Science | 2019 - 2022

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## 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

**Professional Abilities:** Communication, Teamwork, Problem-Solving, Solution-Oriented Mindset

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## 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 and Python 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 API data, 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.

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