Jorge Esteban Ramírez Sashida

Data Scientist

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Personal Details:
June 27, 2002 • Mexican • Single

Data scientist with extensive experience in building and deploying machine learning models, including neural networks, to solve complex problems. Proficient in SQL and NoSQL databases, data analysis, and visualisation, with a strong focus on transforming data into actionable insights. Experienced in handling unbalanced datasets, employing methods to ensure accurate and reliable predictive outcomes. Skilled at collaborating within teams and delivering measurable business value through innovative and impactful solutions.

Technical Proficiencies

Skills:	Machine Learning, Data Analysis, Data Engineering (ETL), Data Visualisation
Tools:	Slack, Notion, GitHub, GitLab, Tableau, PyTorch, AWS, Docker, VectorDB, MongoDB
Languages:	Python, R, Java, C++, SQL

Career Experience

Palenca, Mexico City **Nov 2024 – Jan 2025**
Machine Learning Intern

Developed predictive models to estimate the likelihood of unemployment for individuals over a 12-month period, utilising traditional machine learning approaches and a recurrent neural network.

- The final model had 87% accuracy, 0.9 AUC-ROC with a severely imbalanced dataset (positive class represented 10% of the entire dataset). The previous model had 80% accuracy, 0.79 AUC-ROC.
- Designed and implemented data pipelines to transform approximately 10 million rows into clean and reliable data for model training.
- Created and deployed an API endpoint to integrate the predictive model into production systems, enabling real-time scoring.
- Built a comprehensive backtesting framework to evaluate model performance on newer data.
- Led meetings with clients where we presented the potential impact the model could have in improving credit and hiring processes.

Sons UK, London **Mar 2024 – Aug 2024**
Data Analyst

Performed customer data analysis to identify clusters and patterns. Developed churn prediction models to understand and anticipate subscription cancellations. Optimised inventory management for the Fulfillment by Amazon (FBA) program. Created reports and data visualisations for key performance indicators (KPIs), live inventory status, sales data, and advertising metrics.

- Developed a churn prediction model with 78% accuracy, 0.85 AUC-ROC with an imbalanced dataset (positive class represented approximately 15% of the entire dataset).
- Proposed and implemented a new inventory management system that resulted in approximately ~£60,000 (US$65,000) of yearly savings.
- Implemented ETL pipelines to integrate Ecommerce (Amazon, Shopify, WooCommerce) APIs for the creation of live reports.
- Developed live visualisations in Tableau and Google Sheets, saving area leads an average of 1 hour per day.

Projects

CYZO, A safe + short route planner for Mexico City, 2023 - current.
Music + ML, Catboost + CNN ensemble music taste classifier, 2024 - 2025.
https://github.com/elcachorrohumano/MusicML
Credit Default Predictor, ML models to predict credit default with unbalanced data, 2023.
https://github.com/elcachorrohumano/MLDefaultPrediction
Numpy NN, End to end implementation of a neural network (handwritten number classifier) using Numpy, 2023.

Education & Credentials

Bachelor of Data Science, Instituto Tecnológico Autónomo de México (ITAM), Mexico City – 2025 (current)
Relevant courses: Machine Learning, Data Mining, Bayesian Statistics, Parallel Computing, Data Visualisation