

# JOSE NICOLAS CURREA

jncurrea@utexas.edu | (737) 381-9838

<https://jncurrea.github.io/Portfolio/> | <https://www.linkedin.com/in/jose-nicolas-currea/> | Austin, TX

## EDUCATION

### The University of Texas at Austin – McCombs School of Business

July 2024 - May 2025

Master of Science, Business Analytics

S.T.E.M Degree

### The University of Texas at Tyler

August 2017 - December 2021

Bachelor of Science, Double Major, Mathematics & Information Technology (Honors Program)

S.T.E.M Degree

## SKILLS

- **Tools:** Snowflake, Redshift, AWS S3, Looker, Tableau, Power BI, Qualtrics, Excel, GCP, SAS, GitHub, Microsoft Office
- **Programming Languages:** Python, SQL, R, JavaScript, HTML, CSS
- **Packages:** Pandas, Numpy, ScikitLearn, PyTorch, Matplotlib, Seaborn, Selenium, Beautiful Soup, NLTK, Vader, Gurobi, Tensorflow
- **Machine Learning Applications:** Customer Segmentation, User and Transaction forecasting, Route Optimization, Transaction Monitoring, Churn Modeling, Natural Language Processing, Image Classification, Fraud Management
- **Large Language Models:** OpenAI's GPTs, Meta's Llamas

## WORK EXPERIENCE

### Bank of Bogota (Commercial Banking) | Sr. Data Analyst - Bogota, Colombia

October 2022 - July 2024

- Increased digital adoption by 2% and identified 100,000+ potential digital users by developing a customer segmentation model using Python, collaborating with marketing teams to enhance engagement strategies
- Enhanced customer satisfaction (NPS) by 5 points within six months by implementing an NLP-driven sentiment analysis model
- Presented to C-suite executives insights from ad hoc analysis that drove a 7% increase in digital engagement by analyzing customer transaction patterns and monitoring user behavior using Alteryx, SAS, and Power BI
- Mentored two analysts in Python-based decision trees, logistic regression, and clustering techniques, improving their ability to translate complex models into business insights

### Merqueo (Online Grocery Delivery Service) | Jr. Data Analyst - Bogota, Colombia

March 2022 - October 2022

- Migrated 50+ PostgreSQL tables into 10 optimized Amazon Redshift information cubes, improving query efficiency by 80%
- Reduced delivery times to under 50 minutes by creating a route optimization and coordinating with logistics teams to ensure alignment with operational needs
- Improved operational efficiency by 8% across regions (Colombia, Mexico, Brazil) through the design and development of Looker dashboards, simplifying supply chain insights for non-technical stakeholders and improving resource allocation
- Strengthened data integrity and reporting accuracy by 40% by training cross-functional teams on data modeling, ETL pipelines (Airflow), and dashboard development, ensuring reliable insights for business strategy

### Puntos Colombia (Loyalty Program) | Business Intelligence Analyst - Bogota, Colombia

June 2021 - August 2021

- Retained five at-risk partners by creating a predictive churn model and collaborating with marketing teams to implement targeted retention strategies based on the model's insights
- Developed a KPI framework to track customer behavior, ensuring accuracy in engagement metrics and informing marketing strategies

## Projects

### Connect 4 AI Bot – Neural Network and Transformer Optimization

- Built and deployed a Connect 4 AI bot, training CNN and Transformer models using Monte Carlo Tree Search (MCTS) to predict optimal moves, achieving 85% accuracy in board position evaluation
- Developed an interactive web app with Anvil, hosted a TensorFlow model on AWS, and dockerized backend services for scalable deployment

### SnapChef – Intelligent Recipe Recommender

- Designed and built artificially intelligent recipe recommender using OpenAI's gpt-4o model for image analytics, user preference extraction, and recipe feasibility as well as the spaCy package for similarity scores among recipe reviews

### Tragedy Assistance Program for Survivors (TAPS) Grief Stage Identification

- Amplified grief stage identification performance by 31% by using OpenAI's gpt-4o model to augment over 350 multimodal survey responses

## ADDITIONAL INFORMATION

**Languages:** Spanish (Native), English (Native), French (Beginner)

**Interests:** Premier League, Roger Federer, Weightlifting, Obstacle Racing, FIFA, Sports Statistics, The Office (Sitcom)