JOSE NICOLAS CURREA

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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, Looker, Tableau, Power BI, Qualtrics, Excel, GCP, SAS, Git, Microsoft Office **,** Google BigQuery, Redshift, AWS S3
- **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**
- Managed 5M+ monthly financial transactions using Alteryx, ensuring data privacy, security, and regulatory compliance for sensitive customer information
- Built Power BI dashboards to monitor customer transactions and fraud patterns, presenting insights to risk teams and leadership to drive fraud prevention strategies
- Designed Python-based segmentation models to identify 100,000+ high-potential digital users, increasing adoption by 2% and influencing marketing campaigns decisions
- Mentored a team of two analysts on Python, SQL, and machine learning models improving the team's technical proficiency in data-driven decision-making

Merqueo (Online Grocery Delivery Service) | Jr. Data Analyst - Bogota, Colombia   **March 2022 - October 2022**
- Migrated 50+ PostgreSQL tables into Amazon Redshift, optimizing data pipelines and improving query efficiency
- Designed Tableau and Looker dashboards to monitor inventory shortages and warehouse workforce productivity, improving operational efficiency by 8% within the LATAM region
- Developed a route optimization model using Python, k-means clustering, and the Traveling Salesman Problem (TSP), reducing delivery times to under 50 minutes

Puntos Colombia (Loyalty Program) | Business Intelligence Analyst - Bogota, Colombia   **June 2021 - August 2021**
- Built a Python-based churn model to identify at-risk partners, delivering findings to marketing teams to inform retention strategies
- Conducted A/B tests to evaluate campaign effectiveness, presenting insights to cross-functional teams to optimize engagement and ROI
- Developed a KPI framework in SQL and Power BI to track customer behavior trends, ensuring stakeholders had real-time access to performance metrics

Projects

AI Resume Matcher – Automating Resume & JD Analysis
- Developed an AI-powered resume matcher using GPT-4 to analyze job descriptions and identify missing skills, achieving an optimized match score analysis using cosine similarity on OpenAI embeddings
- Implemented a Streamlit UI for interactive resume feedback, allowing users to upload resumes and receive tailored improvement recommendations and AI-generated cover letters

Retrieval-Augmented Generation (RAG) for Document Analysis
- Built an AI-powered RAG-based system that retrieves relevant document sections to enhance LLM responses, improving accuracy and context-awareness
- Used FAISS for embedding search, OpenAI's GPT-4 for response generation, and Streamlit for interactive UI, helping users query complex documents efficiently

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)