Sebastian Ramirez Escobar

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SUMMARY

Passionate Data Scientist with foundations in machine learning, advanced analytics, and non-parametric statistics, eager to apply innovative models and data-driven insights to solve complex problems. Committed to continuous learning and problem-solving, leveraging my skills in Python, deep learning, and predictive modeling to drive impactful decision-making and contribute to cutting-edge data science solutions that fuel organizational growth and innovation.

SKILLS

Programming Languages: Python, PySpark, SQL, VBA

Frameworks: TensorFlow, Keras, XGBoost, Catboost, StatsModels, SparkNLP, Selenium

Data Manipulation and Analysis: NumPy, Pandas, Scikit-learn, NLTK, Embeddings, Vector DB (RAG)

Versioning: Git

Tools: Excel, OpenOffice

Visualization: matplotlib, seaborn, PowerBI, Looker Studio

Soft Skills: Team player, problem-solving oriented, communication, leadership, attention to detail, resilience

PROJECTS

Telegram Chatbot   July 2024 – Aug 2024
"LLM" Chatbot Project   *Python, Flask, OpenAI, Wordpress API, MongoDB, Render*

- Developed a sophisticated chat-based customer service application using Python and Flask, ensuring seamless user interaction and efficient handling of requests.

- Integrated multiple APIs including OpenAI GPT models and WooCommerce, enabling enhanced product recommendation capabilities and real-time product data retrieval.

- Utilized MongoDB for storing and managing conversation history, ensuring data persistence and efficient retrieval of user interactions.

- Implemented threading and timer mechanisms to monitor user activity and reset sessions, enhancing the overall user experience by ensuring timely assistance.

- Leveraged environment variables through dotenv for secure API key management and streamlined deployment processes, ensuring a secure and maintainable codebase.

Efficient Management of Passenger Flow in the Medellín Metro   Aug 2023 – Dec 2023
Machine Learning, A Predictive "ARIMA" Approach: *Python, Flask, Hugging Face, statsmodels*

- Applied "ARIMA" models to forecast hourly and daily user flow, improving predictive accuracy.

- Implemented Statistical Analysis to identify key variables for feature engineering.

- Identified key traffic patterns and addressed data gaps, enhancing the reliability of forecasts.

- Developed dashboards in PowerBI for real-time visualization, enabling efficient resource planning and maintenance scheduling

EXPERIENCE

Data Entry - Systematizer   Aug 2024 – Dec 2024
FUNDARMAN   *Medellín, Colombia*

- Automated the data reporting process to ICBF developing a solution with Selenium.

- Enhanced data accuracy by verifying spelling with SpaCy NER Models.

Data Scientist   July 2023 – Dec 2023
ASMETCO   *Medellín, Colombia*
- Optimized workflows and decision-making through advanced data science solutions.
- Led real-time database integration and quality assurance using AppSheet and AppScript.
- Developed a live Looker Studio dashboard, providing actionable insights for ICBF.
- Enhanced data accuracy and operational efficiency with real-time reporting.

Web Developer   Jan 2023 – March 2023
Colegio Mayor de Antioquia   *Medellín, Colombia*
- Developed a web portal to promote the labor techniques project in Medellin's commune 1.
- Utilized Python, Flask, and MariaDB for backend development, ensuring security and performance.
- Integrated WordPress and Elementor for a user-friendly interface and content management.

Web Developer   Jan 2021 – March 2022
Licores Gallo SAS   *Medellín, Colombia*
- Created a portal for Importaciones Gallo SAS, supporting operations in Miami and Medellín.
- Used WordPress, Elementor, and WooCommerce for e-commerce integration.
- Enhanced the company's online presence and streamlined business processes.

EDUCATION

Universidad Eafit   Medellin, Colombia
M.S. in Data Science and Analytics   *July 2023 – Present (Graduation on April 2025*

Microsoft - IDATA - Universidad Eafit - Sapiencia   Medellin, Colombia
Data Scientist - Foundations (230 hours)   *July 2022 – Dec 2022*

Universidad Cooperativa de Colombia   Medellin, Colombia
B.S. in Civil Engineering   *Aug 2014 – March 2020*

CERTIFICATIONS

- EFSET English C1 - Certificate

- Introduction to Backend Development META - Certificate