SERGIO RODRIGUEZ VALBUENA
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PROFILE

Final-year Data Science and Engineering student at Universidad Carlos III de Madrid with international academic experience and a strong background in Artificial Intelligence and Data Analytics. I am proactive and passionate about developing innovative, data-driven solutions.

EDUCATION

UNIVERSIDAD CARLOS III MADRID **Madrid, España**
Data Science and Engineering degree 2021 – Today
GPA: 7.6/10

UNIVERSITY OF CALIFORNIA **California, United States**
Computer Science (3rd Year Exchange Student) 2023 – 2024
GPA: 3.58/4

EXPERIENCE

Generative AI Engineer at MissioIA (Madrid, Spain) January 2025 - Today
• Design and implementation of custom SaaS solutions for clients, applying generative AI to automate workflows and optimize processes.
• Full-stack web application development, integrating technologies such as artificial intelligence and databases.
• Workflow automation through programming, enabling better decision-making and improving efficiency.
• Integration of generative AI models and intelligent agents into real-world applications for enhanced user interaction and decision support.

Data Analyst I at PRGX (Madrid, Spain) September 2024 – March 2025
• Process automation with Python and DBT
• ETL tasks and financial data analysis using SQL and Microsoft SQL Server.
• Business intelligence tools like Power BI for data validation
• Collaboration with international teams of analysts and auditors to ensure data integrity across financial recovery operations

Machine Learning Intern at Hito 1 (Asturias, Spain) June – August 2024
• Development of a machine learning model for predicting spillway overflow events and their characterization.
• Feature engineering on hydrological and time-series data.
• Model validation and evaluation, using Random Forest and XGBoost.
• Data visualization for analysis and interpretation.

PROJECTS

Mobility and Routine Analysis for Mental Health Assessment 2024-2025
• Collaborated with eB2 (Evidence-Based Behaviour) to analyze large-scale geolocation data from mobile devices, identifying users' mobility patterns and daily routines. Applied clustering algorithms (DBSCAN), entropy analysis, and developed a mobility index to extract behavioral insights. Built an interactive dashboard and implemented machine learning models to predict clinical study groups based on movement patterns and routines.

LANGUAGES AND SKILLS

Languages: Spanish (native) · English (C1 Cambridge) · French, German, Italian (introductory coursework)
Programming & Query Languages: Python · JavaScript · TypeScript · R · Matlab · SQL · T-SQL
Frameworks & APIs: React · Flask · TensorFlow · PyTorch · Scikit-learn · XGBoost · OpenAI API · Anthropic API
Python Libraries: Pandas · NumPy · Matplotlib · Seaborn · Streamlit · Transformers (Hugging Face) · OpenCV
Databases: Oracle · MongoDB · Microsoft SQL Server.
Cloud & Tools: Git · Firebase · Google Cloud Platform · Microsoft Azure · DBT · Power BI