Enzo Villafuerte

Data Engineering/ Data Science / BI

Experienced in data management, ETL processes, cloud integration, and machine learning. Pursuing a master's in Industrial and Systems Engineering, with focus in Optimization & Data Science. Passionate about leveraging data for insights and optimization. Football ⚽ lover.

Contact

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Address
Cincinnati, Ohio, USA

Education

2025
MSc Industrial & Systems Engineering
Ohio University
GPA: 3.78

2022
BSc Information Systems & Analytics
Ohio University
GPA: 3.81

Expertise

- Python
- SQL
- R
- C#
- AMPL
- Airflow
- Kafka
- Spark
- Azure Databricks
- Azure DevOps
- SAP ERP
- Tableau
- PowerBi
- HTML
- Gurobi
- Linux Scr.
- Shell Scr.

Language

English - Fluent

Spanish - Native

Experience

05/2024 - 08/2024
DJJ/Nucor Corporation | Cincinnati, Ohio, USA

Business Intelligence Intern

§ Assisted in the migration from on-premises data warehousing systems to Azure Databricks, implementing Medallion Architecture and Data Lakehouse principles to enhance data processing, centralization and storage.
§ Engineered and optimized 10+ ETL pipelines using PySpark, including historical and incremental loads.
§ Implemented Support Vector Machine and Naive Bayes algorithms to classify purchase data with deductions.
§ Developed custom NLP text classification pipelines, integrating pre-processing steps (stemming, vectorizer) and hyperparameter tuning with GridSearch CV.
§ Participated in an AI project to predict cobbling in steel manufacturing settings. Used LSTM & XGBoost.
§ Enhanced and refined several SSRS reports by updating SQL stored procedures, adding parameters, and modifying RDL files to improve report accuracy and functionality.
§ Crafted data models and visualization reports in Power BI to support the Supply Chain division's forecasting and decision-making processes.

08/2023 - 05/2025
Russ College of Engineering | Athens, Ohio, USA

Research Assistant

§ Consulted on an international project to electrify two major bus lines (Ecovia and Trolebus) within the Quito, Ecuador Bus Metropolitan System, contributing to sustainable urban transportation solutions.
§ Applied data analytics techniques to assess the Bus Metropolitan system's current fleet configuration, utilizing maintenance records, operational & dispatch data, and vehicle type analysis.
§ Assisted in the development of a python program for bus scheduling based on operational characteristics.
§ Initiated plans for the future development of a centralized data warehousing system to modernize data practices.
§ Set up Azure DevOps accounts for project management, using boards and agile methodology to improve task tracking and collaboration.

07/2021 - 12/2022
Ohio University Office of Information Technology | Athens, Ohio, USA

IT Service Desk Specialist

§ Solved technical hardware & software issues for Ohio University students, faculty and staff.
§ Interacted with the different software available while monitoring the status and progress towards resolution of assigned incidents, while effectively collaborating with cross-functional teams to ensure efficient resolution.
§ Developed great customer service and leadership skills.

Leadership & Projects

Futbol Analytics Club

§ Led analytics project involving partnership with Sporting Cristal, renowned professional peruvian football club.
§ Built K-Means clustering models to better group players based on their mesomorphic characteristics for nutrition and development purposes in Sporting Cristal's academy division (Years 13 to 18).

Masters Thesis - Network Science

§ Application of network science to analyze FC Barcelona's competing networks, performing descriptive and predictive analyses, and developing an optimization model to disrupt or strengthen networks for competitive advantage.

Football Predictive Model

§ Automated data collection processes by leveraging APIs and web scraping for the development of a simulation model rooter in the Poisson Distribution, which calculate game output probabilities based on Expected Goals (xG) data.