ITZARI CALVILLO HERNANDEZ

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SKILLS

- Machine Learning
- Python
- PostgreSQL
- Tableau
- Data Visualization (Matplotlib, Seaborn)
- Exploratory Data Analysis
- Classification/Regression Algorithms
- Ensemble Methods
- Predictive Modeling
- Statistical Inference
- Clustering Techniques (PCA)
- Hyper-Parameter Tuning
- Feature Engineering
- Pipeline Development (Scikit-learn)

ACHIEVEMENTS

Python Championship, Ranked: 3rd
University of Texas at Austin

CERTIFICATIONS

Verified International Academic Qualifications for B.S., Marketing
WES (World Education Services)

LANGUAGES

Spanish --- Native

English ---- Advanced

ELIGIBILITY

US Citizen

EDUCATION

University of Texas at Austin **GPA: 4.24 / 5**
PG Dip., Data Science & Business Analytics 2022-2023

Universidad del Valle de México **GPA: 3.91 / 4**
B.S., Marketing 2018-2023

ACADEMIC PROJECTS

Stock Market Analysis & Profiling

- Conducted comprehensive Exploratory Data Analysis (EDA) on a stock market dataset to uncover insights using advanced visualization techniques.
- Utilized clustering algorithms (K-means and hierarchical) to group stocks effectively, ensuring personalized investment strategies.
- Provided actionable insights based on cluster profiling, highlighting characteristics and trends within each cluster.

Machinery Fail Predictive Model

- Implemented EDA techniques to understand wind energy turbines' machinery failure patterns, focusing on reducing false negatives.
- Employed various classification algorithms and model evaluation techniques to build a robust predictive model.
- Selected the best-performing model based on recall score and ensured its generalizability through rigorous validation.

Work VISA Approval Predictive Model

- Analyzed a dataset on work VISA applications, prioritizing F1-score to optimize predictions while minimizing false outcomes.
- Developed and fine-tuned multiple classification models, including a stacked ensemble, to enhance prediction accuracy.
- Provided business insights and recommendations based on feature importance, aiding in decision-making processes.