

DAVID MACIAS

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PROFILE

Experienced with numerical analysis, algorithm development, data analysis, modeling and visualization. I have done practical work with statistical analysis to aid in decision-making strategies and implementation. I also have experience designing and maintaining scalable data pipelines using Azure, Apache Spark and Python. I am solution-oriented and a versatile contributor working effectively both independently and as a team collaborator. I am eager to both build on and put my knowledge and experience to work.

EXPERIENCE

Data Analyst	El Paso County, El Paso, TX	04/2024 - Present
<ul style="list-style-type: none">Improved the efficiency of data collection and reporting, resulting in an ROI of \$1,000,000.Created and maintain data pipelines that refined and stored data to be actively used for analysis and reporting County wide.Updated County data warehousing techniques with data recall and compartmentalization, resulting in a 100% increase in usage by non-technical staff membersUtilized Web APIs to extract and populate training data, ultimately increasing data transparency and accessibility for instructional purposes.		
Graduate Researcher	New Mexico State University, Las Cruces, NM	02/2022 - 05/2024
<ul style="list-style-type: none">Managed data cleaning, visualization, and custom model development across diverse datasets, focusing on algorithmic solutions for complex scenarios.Utilized advanced modeling techniques to select features, build classifiers, and optimize performance metrics, contributing to innovative research initiatives.Developed and implemented various machine learning algorithms using Python and libraries scikit-learn and TensorFlow to achieve a successful predictive model.Evaluated the performance of the classification model using metrics such as accuracy, precision, recall, and F1-score.Created visualizations of the classified data using matplotlib and PowerBI.		

EDUCATION

M.S. Data Analytics	New Mexico State University	2022-2024
<ul style="list-style-type: none">Graduated summa cum laude - 3.7+ GPAProminent coursework: Machine Learning for Algorithm DevelopmentLed research team to develop and deploy predictive model for astronomical object classificationCompleted time series analysis to predict drought and precipitation with 95% accuracy.		
B.S. Computational Physics	University of Texas at El Paso	2016-2020
<ul style="list-style-type: none">Prominent coursework: Numerical Analysis, Mathematical Methods, Computational Modeling		

PROJECTS

Employee Workload Machine Learning Optimization
<ul style="list-style-type: none">Implemented time series analysis for ticketing system to optimize assignment strategy and functionality.Lowered ticket completion time by 150%Increased overall client satisfaction score and associated KPIs
PowerApps Data Pipeline and Officer Assignment
<ul style="list-style-type: none">Create PowerApp to input, concatenate, clean and analyze data.Used Naive Bayes to predict high demand and optimal officer allocation.Prepared prescriptive analysis for weekly and monthly reports to aid in daily decision making.

Tech Stack & Skills

Data Storage: Azure, databricks, MySQL
Data Visualization: Tableau, PowerBI
Data Analysis: Excel, Python, R, SPSS, Apache Spark
Notebooks: Deepnote, Jupyter
Libraries: scikit-learn, tensorflow, sci-py, numpy, pandas, matplotlib, pytorch
Statistical Analysis: Regression, Time-series forecasting, A/B Testing, Feature Scaling, Machine Learning