

MARIA MEZA

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PROFILE

Data scientist with a background and experience in machine learning, and engineering statistics. Passionate about learning new libraries to obtain better results.

PROJECTS & EXPERIENCE

Springboard Data Science Student:

November 2023

9-month intensive course in data science, machine learning, Python, and SQL with a 1:1 industry mentor oversight. Completing 500+ hours of hands-on coursework with the completion of the following projects.

Predicting the Progression of Parkinson's Disease using Machine Learning

September 2023

Designed and built machine-learning models using data provided on Kaggle from AMP®-PD. Improved performance from an average MSE of 60 to 54.13.

Clustering Case Study of Customer Segmentation with K-Means

September 2023

Predicting what influences wine purchasing using K-Means clustering. Identified the best number of k-clusters using various different methods including but not limited to- the elbow method, the silhouette method, and affinity Propagation. Visualized using PCA.

Random Forest COVID Case Study

September 2023

Designed and built random forest machine-learning model with an accuracy score of 86.5%, to predict a patient's status of infection and further research on COVID-19. The model had.

Data Science Guided Capstone Predicting the Best Ticket Price for Big Mountain Resort

February 2023

Designed and built statistical and machine-learning model using a pipeline, a random forest regression, a dummy regressor, and a linear regressor to find the best ticket price for Big Mountain Resort, resulting in an increase from 80 USD to 95.39 USD.

TECHNICAL SKILLS

Machine Learning: classification, regression, clustering, feature engineering, Deep learning,

Statistical Methods: time series, regression models, hypothesis testing and confidence intervals, principal component analysis and dimensionality reduction.

Software and Programming Languages: Python (scikit-learn, numpy, scipy, pandas, TensorFlow), R, SQL, Microsoft Excel

Selected Coursework: Calculus I, Engineering Statistics

EDUCATION

Springboard Data Science Certificate

November 2023

Data Science Certificate

University of Florida

May 2023

Bachelor of Arts in Biology

St. Petersburg College

August 2016

Associate of Arts, *Cum Laude*

ACADEMIC HONORS AND AWARDS

Department of Languages Literature and Culture Award for Recognition of Excellence Awarded to top student in Intermediate Japanese