Elda Piedade

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Data Scientist determined to achieve the pinnacle of expertise through continuous learning and inspired by the synergy of AI and Big Data. Interested in data mining, statistical analysis, experimentation, model building, and visualization.

Education

B.S in Data Science; Mathematics and Statistics Minor, University of Houston-Downtown, Fall 2020 — GPA **4.0**

Associates of Art in Business Administration, Houston Community College, Spring 2017 — GPA **4.0**

Certifications

Natural Language Processing, Convolutional Neural Network in TensorFlow, Data Visualization with Tableau

Recognition

Texas Talent Connection Most Promising Researcher Award, Grace Hopper 2020 Scholarship Recipient for Outstanding Women in CS

Technical Skills

Programming Languages, Libraries and tools
Python (including scikit-learn, TensorFlow, Seaborn, Matplotlib, and Pandas), Git, SQL (including executing queries against and creating new databases), R (including visualization and Linear regression modeling and analysis), Julia (including writing functions for model building), HTML, Monday.com (project management tool), C++.

Machine Learning/Data Science Methods
Supervised learning (random forest, logistic regression, k-nearest neighbors' deep neural networks), unsupervised learning (clustering), unstructured data analysis, web scraping, dimensionality reduction, and feature engineering and selection, Exploratory Data Analysis.

Data Science Experience

Computational Biomedicine Lab Research Intern, University of Houston, January 2020 - Present
- Implemented data augmentation and feature engineering to improve the DNN model's performance for predicting cardiovascular disease risk to assist health care providers in offering better patient assistance and preventive measures
- Engineered sixteen features and improved model performance by 2.53%, AUC 0.87
- Applied and analyzed statistical hypothesis tests to compare models and report accurate model performance
- Authored weekly reports to improve team's performance, statistical acumen and to communicate results

Texas Talent Connection Research Training, University of Houston-Downtown, June 2019 - January 2020
- Collected data from a website and created a database using SQL
- Cleaned, and transformed data to create a dataset containing information about houses in Houston
- Modeled data with linear regression and neural networks, to predict the final price of each residential home in Ames, Iowa using R, RMSLE 0.13
- Produced Data Visualizations to recover demographic insights relating to the housing market in Houston

Leadership Experience

Scholars Academy Peer Mentor, University of Houston-Downtown
- Provided mentorship and tutoring in Probability and Statistics to an average of 30 students per semester
- Created content and study material and facilitated workshop for Python, machine learning, and Calculus

Data Science Initiative, Grace Hopper Scholar
- Mobilized 80 members to participate in a data science network within one month of joining as a member
- Organized informative meetings enabling women in STEM fields to learn and network

Association for Computing Machinery Data Science VP Officer, University of Houston-Downtown
- Promoted data science events within a majority computer science club
- Motivated 3 students to pursue a data science degree
- Delivered Data Science Workshop to 30 students
- Published a data science tutorial regarding data mining for the ACM network

Conference Presentations

- Texas Academy of Sciences Conference, 2020
- Student Research Conference at UHD, 2020