Elda Piedade

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.

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EDUCATION
5/15-12/20

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

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

RECOGNITION

Texas Talent Connection Most Promising Researcher Award; Grace Hopper 2020 Scholarship Recipient.

PROFESSIONAL SKILLS

Programming: Python, R, SQL, Julia

Certifications: Natural Language Processing and Convolutional Neural Network in TensorFlow; Tableau

DATA SCIENCE EXPERIENCE

Computational Biomedicine Lab Research Intern, University of Houston — 1/20 - 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 — 6/19 -1/20

- 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.
- Collected, cleaned, and transformed data to create a dataset containing information about houses in Houston.
- Produced Data Visualizations to recover demographic insights relating to the housing market in Houston.
- Extracted data from a website and created a database using SQL.

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.

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
- Designing a Data Science Lab to teach computer science students about feature engineering, exploratory data analysis, and machine learning.

CONFERENCE PRESENTATIONS

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