

# 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  
Associates of Art in Business Administration, Houston Community College

5/15-12/20

GPA of 4.0  
GPA of 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 ).

### 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

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

- 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

### Data Science Initiative, Grace Hopper Scholar

06/20 - Present

- 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.

### Scholars Academy Peer Mentor, University of Houston-Downtown

05/19-05/20

- 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.

### Association for Computing Machinery, Data Science VP Officer, University of Houston-Downtown

05/19-05/20

- 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
- Contacted external entities to provide seminars and workshops for ACM members.

### High school Student Association, President, Complexo Escolar Eliada, Angola

02/14-12/14

- Mobilized students to participate on door-to-door donative collection for an all-girls orphanage
- Organized recreational activities (soccer competition between classes, senior prom)

- Recruited new members
- Monitored the performance of each member officer and their tasks
- Conceptualized and Supervised every activity organized
- Appointed and mentored the next A.C.E.E president

**High School Student Association**, Secretary, Complexo Escolar Eliada, Angola

02/13-12/13

- Collaborated with three students to create a student association with the mission of enhancing the students experience in high school by creating events and serving as liaison between students and the school's administration.
- Documented what was discussed on every weekly meeting,
- Recorded and scheduled the activities and tasks.

**PRESENTATIONS & COMPETITIONS**

- Texas Academy of Sciences Conference, 2020
- Student Research Conference at UHD, 2020
- TAMU Datathon, 2019

**COMMUNITY SERVICE**

**Cornerstone Academy**

04/19

- Undertook a service-learning project to engage with 100 middle school aged children
- Inspire children to take interest on STEM
- Presented a statistical experimentation about the wisdom of the crowd statistical phenomenon

**Lake Wood Church**

09/17

- Sorted clothes to be donated to Tropical Storm Harvey Victims, 8 Hours

**Catholic Charismatic Center**

09/17

- Sorted and distributed groceries to Tropical storm Harvey Victims, 6 Hours

**Houston Food Bank**

07/17

- Inspected and Sorted donated food items, 20 Hours
- Prepared and sorted fruit and vegetable to offer to elementary school kids, 5 Hours

**The College Park Cemetery Cleanup**

07/16

- Performance of minor grounds maintenance tasks at the cemetery to restore its dignity and beauty, 4 Hours