

# SHARA DUONG

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## EDUCATION

Master of Science in Statistics and Data Science  
University of Houston – Houston, Texas  
GPA: 3.927

Dec 2021

Bachelor of Science in Computer Science | Bachelor of Science in Mathematics  
University of Houston – Houston, Texas  
Minor in Economics  
GPA: 3.938

May 2019

## RELEVANT COURSE WORK

Algorithms and Data Structures  
Information Visualization

Big Data Analytics  
Programing for Data Analytics

Database Systems  
Statistical Learning and Data Mining

## ACADEMIC PROJECTS

**Consumer Purchase Prediction**, University of Houston

July 2021

- Performed predictive analytics on eCommerce data to forecast consumer purchase behaviors
- Constructed, trained, and tuned machine learning models using Spark's MLlib pipelines
- Handled computations on a large dataset using AWS S3 cloud storage and EMR big data platform

**Text Image Classification**, University of Houston

Apr. 2021

- Implemented a convolution neural network (CNN) to classify images of different fonts
- Reformatted image matrices into vectors using Python with NumPy and Pandas libraries
- Constructed, trained, and optimized the CNN using ML libraries such as Keras and TensorFlow
- Utilized drop-out learning to reduce model overfit

**Forest Degradation Analysis**, University of Houston

Mar. 2021

- Explored expected forest loss and identified potential causes using data from the US Forest Service
- Utilized Python's data science libraries for the extraction and transformation of relevant data
- Communicated findings through interactive visualizations, presenting a story at both the state and local levels with Tableau dashboards

**Academic Performance Research**, University of Houston

Nov. 2020

- Collaborated in a group of five and analyzed Texas Education Agency's statewide accountability report to find key determinants of student achievement
- Contributed as the main programmer, providing code and troubleshooting assistance to the team
- Collected, cleansed, and transformed the data into a usable spreadsheet
- Produced regression models in R showing the strong negative relationship between a school's proportion of socioeconomically disadvantaged students and academic performance

## SKILLS & INTERESTS

Programing Languages: Python, R, C++

Tools: AWS EMR, Linux Bash, GitHub, Excel, OpenGL, SVN, Tableau, Unity

Certifications: Tableau Desktop Specialist

Interests: gaming, origami, drawing, tea, entomology, learning languages, puzzles