Thu Nguyen
US Permanent Resident

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EDUCATION

Texas A&M University   College Station, TX
B.S in Applied Mathematical Sciences, Statistics emphasis   May 2021
Minor in Computer Science
Cumulative GPA: 3.62

Related Coursework:

Data Structures and Algorithms	Linear Models	Machine Learning
Principles of Data Sciences	Statistical Computing	Topological Data Analysis

SKILLS and ACTIVITIES

Languages: Fluent in English and Vietnamese
Technical Skills: Proficient in Python (Pandas, Scikit-learn, Nltk, Framework: TensorFlow), R (ggplot2, dplyr, caret, RMySQL), C++; familiar with SQLite, Java
Activities: Pi Mu Epsilon, TAMU Data Science Club, Tethered Informatics and Data Analytics Lab

EXPERIENCE

Texas A&M University   College Station, TX
Research Assistant, Computational Materials Sciences Lab   Jan 2021 – Present
- Process 15 TB image data and apply Variational AutoEncoders for microstructural images extraction to better understand printing parameters and quality in 3D printing

Undergraduate Researcher, Department of Petroleum Engineering   Aug 2020 – Jan 2021
"Data Driven Insights for Oil & Gas Drilling Operations"
- Applied Random Forest and Recurrent Neural Networks (in TensorFlow), with 99.48% accuracy rate and 85% precision rate in the first phase, to predict lithofacies of the wells and drilling dysfunctions on 2GB sensory downhole data
- Lead programming for a team of 3, assign programming tasks for each team member, oversee the process, and compile into a Jupyter Notebook

San Jacinto College   Pasadena, TX
Research Assistant, Institutional Research & Data Science   Apr 2019 – Aug 2019
- Conducted phone surveys to registrar offices of 20 local high schools in Deer Park, South Houston, and Pasadena, presented the collected data in Excel spreadsheets in a clear manner for easy file access and data manipulation, and arranged the survey forms before sending them to other campuses

LEADERSHIP

Peer Mentor, College of Science   Aug 2020 – Dec 2020
- Co-instructed a first-year experience class, mentored, and met one on one biweekly with 6 freshmen

PROJECTS

Walmart Search Engine Optimization   Oct 2020 – Present
(https://github.com/tqn14/Datathon2020-Walmart-search-engine-optimization-)
- Build a pipeline to crawl 20000 products information on walmart.com using Selenium in Python
- Create a GUI for a search engine built purely with Machine Learning tools, using TensorFlow Transform for text embeddings, SkLearn PCA for features reduction, and KMeans for clustering.