Neel Panging

Aspiring Data Scientist and Mathematician

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Education

The University of Texas at Austin — *Austin, TX*

Bachelor of Science in Applied Mathematics

Bachelor of Science and Arts in Physics — *August 2018 - May 2022*

Minor in Computer Science

Experience

Dell — *Round Rock, TX*

Incoming Data Science Intern — *June 2020 - August 2020*

FlyLiz — *Frisco, TX*

iOS Developer — *June 2019 - August 2019*

- Utilized Xcode and Swift to develop a mobile app for an upcoming auto-insurance startup that allows users to report claims and view balances
- Implemented Apple's MapKIT API service in order to retrieve user location following car accidents with 25-foot precision
- Developed a Firebase Realtime Database to store and sync users' auto and financial information

The University of Texas at Austin Freshman Research Initiative — *Austin, TX*

Undergraduate Researcher — *January 2019 - May 2019*

- Researched and applied machine learning/robotics concepts as part of the Robot Learning research stream
- Utilized ROS to model a robot arm and detect various objects through a mean-shift machine learning algorithm with 80% accuracy
- Implemented findings on a seven-degree-of-freedom robotic arm which detected and sorted fruits and vegetables in unique patterns

Projects

ATP Tennis Data SVM Classifier

Personal — *December 2019*

- Developed a Machine Learning classifier that utilizes data from 30,000 ATP Tennis matches to determine the winner of a given match up
- Conducted exploratory data analysis by comparing pair plots and creating KDE plots to model relationships between different features
- Quantified data through methods of label-encoding and standardization
- Implemented a Support Vector Machine algorithm and utilized Grid Search in order to fine tune hyperparameters .

Toxic Comment Classifier

Texas Convergent — *April 2019*

- Helped build and market a toxic comment classifier for freelance bloggers, forums, and live chats as part of Texas convergent's Data Analysis build team
- Engineered 30 text based features and utilized sentiment analysis for sentiment scores
- Implemented an XGBoost machine learning algorithm resulting in 95% accuracy and 86% f-score

Advertisement Analytics with Logistic Regression

Personal — *March 2019*

- Developed a model for a company website that predicts whether or not a user will click on an ad based on the features of that user
- Preprocessed data through label encoding and examined histograms, joint plots, and KDE plots
- Implemented Logistic Regression and calculated the probability that a certain user will click a certain ad with 91% accuracy

Additional Information

Skills

• Python, Java, C++, Swift, JavaScript, SQL, HTML/CSS, Excel

Activities/Organizations

• Texas Convergent, Machine Learning Data Science club, Intramural Tennis

Interests

• Data Science, Machine Learning, Applied Math, Physics, Tennis, Music, Thai Food