

# 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

August 2018 - May 2022

BACHELOR OF SCIENCE AND ARTS IN PHYSICS

GPA: 3.73

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