PIZON SHETU

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# EDUCATION

## Springboard Data Science Bootcamp

**Online Apr - Nov 2021**

Performed and implemented full Python Data Science Stack, Data Wrangling, Statistical Inference, Supervised and Unsupervised Machine Learning, Deep Learning, SQL, A/B Testing, etc.

## BA: Computer Science and Applied Math

**NY, Queens 2016 - 2020**

Relevant Coursework: Statistic, Bayesian Models, Linear Algebra, Linear Programming, Machine Learning in R.

# TECH STACK

**Python:** Pandas, NumPy, Seaborn, OOP, SciPy, Statsmodel, Matplotlib, Keras, Flask, requests

**Machine Learning:** Neural Networks, Regression, Decision Trees, RandomForest Scikit-Learn, OpenCV, R, Databricks, Tensorflow, Classification, RandomForest, NLP, Git

**SQL:** NoSQL, sql-lite, Microsoft SQL Server, DBMS, PHP, ETL, Data Analysis, DML

**Apache:** Hadoop, PySpark, MongoDB, MapReduce, HDFS, Hbase, Data mining, Oozie, Mahout

# PROJECTS

### Designed and built Convolutional Neural Network for Image Recognition – Classification

### Utilized Keras API to build a complex neural network which can classify 315 different species of birds.

### Leveraged Transfer-Learning with VGG16, it was able to classify with a 94% accuracy.

### Hyper-parameter tuning the model through Bayesian Optimization and freezing/unfreezing CNN layers led to a further gain of 98% accuracy in predictions.

**Big Mountain Resorts – Regression Model**

* **Created a competitive pricing model by analyzing Big Mountain’s attractions and facilities to their competitors.**
* **My model was able to increase their revenue by $3.4 million.**

**Web Scraper – JavaScript**

* **Collaborated with a team of 4 to build a data extraction tool on an interactive webpage.**
* **Users can search and store data on json file which are then stored on a cloud database.**

**New York Housing Price Prediction - Decision Tree**

* **Cleaned and implemented MICE imputations on over 75K invalid and missing data for Zillow’s Housing data**
* **Provided key insights and underlying distribution into NYC housing market, such as wealth gap, cost of homes, and even migration of native residents**
* **Build a predictive model using Gradient Boosting algorithms with the XGBoost library**

### Database for College Classes – SQL

### Build a relational database for Queens College which schedules and maintains classes for the spring semester.

### All classes were properly allocated so no two classes had conflict when it came to time and location.

### Included all course departments and faculty buildings

**Login Authentication – Python, Flask**

* **Built a user login authentication tool on python using flask API to test functionality of storing and authentication**

# EXPERIENCE

## Front-End Web Developer

### ProMarketingHub June - December 2020 Queens, NY

* Improved user experience by implementing modals to show thumbnails and images for a fluid and responsive interaction.
* Increased user base by 10% via implementing various design features to improve the clarity and functionality of the website.
* Assisted senior team on building website layout based on customer needs
* Collaborated and worked on user login authentication using Flask API implementation
* Test various scenarios of user logins via HTTP requests

## Entry-Level Analyst

### Centerplate 2016 - 2020 Elmont, NY

* Performed data entries, sorting and analysis on over 10K+ client data to assist with customer engagement.
* Increased customer oders by 13% by incentivizing coupons and combo deals.
* Analyzed food data to find most popular orders to restructure pricing and maximize profits.
* Created and presented data visualization of customer habits and other findings for regional head of customer acquisition.