

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.

Predictive Pricing Model – 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 orders 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.