Devansh Sheth

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Education

University of California, Riverside   Riverside, California
Master of Science in Computer Science   Graduating December 2020

LDRP Institute of Technology and Research   Gandhinagar, Gujarat
Bachelor of Engineering in Computer Engineering   Graduated April 2019

Technical Skills

- Programming Language: **Python**, **SQL**, Java, R
- Data Science: Data Cleaning, Predictive Modeling, **Data Wrangling**, **Data Visualization, Probability and Statistics, Machine Learning, Statistical Modeling**
- Tools and Technology: **PyCharm**, **Eclipse**, **Spyder**, Weka, **Anaconda**, **Scikit - learn**, Matplot, **Pandas**, **Numpy**, Spark, **SparkSQL**, Hadoop, **MapReduce**, **TensorFlow**, OpenCV, Convoluted Neural Networks

Work Experience

Softvan | *Data Science Intern*   July 2018 – March 2019
- Developed a system to monitor billing queues at stores and supermarkets using OpenCV in python.
- Used Caffe model from MobileNet SSD which is pretrained for object detection to detect humans in the queue. If the number of people in the queue exceeds a predefined threshold, then the store manager is notified, enabling him to manage the queue.
- This reduced wait times by 40% and increased customer satisfaction by 25%.

Projects

Data Science Salary Predictor (Python, Pandas, Numpy, Scikit-learn, Matplotlib, Seaborn, Selenium, Flask)
- Scrapped more than 1000 data science job postings from Glassdoor using python and selenium.
- Feature engineered job description from each job posting to quantify how many postings are for which skills.
- Exploratory Analysis done to understand the impact of location, skills and age of company on the salary offered. Also, which location offers higher salary for different data science roles.
- Built Multiple Linear Regression, Support Vector Regression and Random Forest Regression models. Hyperparameter tuning done by using RandomisedSearchCV to get best parameters. The model now predicts salary with Mean Absolute Error of 14.45 using Random Forest. Productionized the model by creating API endpoint using Flask.

Precipitation Information of all states of US (Python, Spark, Spark SQL)
- Used Spark in python to work on more than 10 million records having weather information of 4 years.
- Cleaned the data using regular expression and filtered important features to get precipitation for all states of US.
- Found the maximum and minimum rainfall for each state with their respective months using Spark SQL and subsequently queried the states with most stable rainfall in the time period of 4 years.

Football Article Scrapper (Python, Scrapy, Json)
- Scrapped more than 1 million news articles of football using Scrapy in python.
- Cleaned and formatted the data to get the title of the article, body of the article and the meta tags and stored it in JSON file.

House Sales in King County (Python, Pandas, Numpy, Seaborn, Sklearn,)
- Analyzed the sales of more than 21000 houses in King County over a period of 1 year and cleaned the data. Exploratory Data Analysis was done using Seaborn and boxplot was made to find outliers and correlation between features.
- Ridge Regression model was developed and trained and on data transformed by using second order polynomial. Also, regularization was used to avoid overfitting and it was used to predict price of a house based on given features with R^2 of 0.70.

Credit Card Default Prediction (Python, Pandas)
- Developed a prediction system by implementing machine learning algorithms (Naive Bayes, KNN, Logistic Regression and SVM) from scratch to predict if the person is going to default on the next credit card bill.
- Responsible for implementing Naive Bayes algorithm and achieved more than 80% accuracy.
- Feature selection was done by plotting heat map of all the features and reduced from 25 features to 12 features.

Extra-Curricular Activities

- Volunteered to raise fund for Cancer Awareness Society by informing people about cancer.
- Runner's up in Athletics 100 meters Racing event held by school.
- Volunteered for the decoration of the University for Techfest named XENESIS organized by my college in 2016 & also represented my college to other college for campaigning about same.