Bhargav Sai Ram Nelluri

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SUMMARY

Hardworking, resourceful, and passionate master's student seeking to use my data science and analytics experience for an internship-level position. Possess 2 years of experience in Data Science and analytics along with test automation. Eager to learn and passionate about data science applications.

EDUCATION

Georgia State University (August 2021- present) **GPA – 4.19**
Master of Science in Data Science and Analytics (Big Data and Machine Learning Concentration)
Vellore Institute of Technology (July 2015 - April 2019) **GPA – 3.6**
Bachelor of Engineering Degree

SKILLS

Programming Languages: Python, R, SQL, JAVA.
Statistics & Machine Learning: Classification, Regression, Decision Trees, Random Forests, Naïve Bayes, KNN, K-means, SVM algorithm, Gradient boosting, ADA boosting Algorithms and Time series Analysis.
Libraries and Visualization Tools: ggplot2, pytorch, Scikit learn, NumPy, Pandas, NLTK, Beautiful Soup, Matplotlib, Seaborn, SciPy, Selenium, plotly, pydot, Tableau, Power BI, Matplotlib, Seaborn.

WORK EXPERIENCE

Caterpillar Inc. **June 2019 - June 2021**
Project Engineer

- Data processing and visualizations using Python Libraries to identify anomalies in caterpillar heavy machinery sensor data. Worked on Optimizing cycle calculation algorithm by identifying trends in machinery sensor data for the application "CAT PRODUCTIVITY".
- Handled missing values and outliers using various statistical Methods.
- Expertise in designing and implementing Selenium Automation Frameworks using Data Driven and Keyword Driven along with selenium locators to fetch correct GUI elements for automation scripts.
- Reduced testing time of application from 4 hours to 10 minutes by automating test cases during each release.

ACADEMIC PROJECTS

Lesion detection for identifying Breast cancer using Mammographic Images - Ongoing

- Performed data pre-processing and feature transformation on open-source MIAS data set.
- Performed image augmentation for increasing training data set to deal with data imbalance and trained Faster RCNN object detection model on the augmented data set.

Anomaly detection in time series data using NYC dataset.

- Feature engineering was performed on timestamp and demand features to extract more meaningful information and resulting in identification of more trends in data.
- Isolation Forest, ARIMA modeling, and k-means algorithms were used to detect outliers in the dataset, and then the best-performing model was identified using K-Fold cross validation.

Bank term deposit predictor

- Identification of features that help understand whether a customer will accept the term deposit offered by a bank using tradition classification algorithms.
- Performed data pre-processing on continuous and categorical attributes of data set including identifying outliers, normalizing data, and data transforming.
- Utilized various classification ML models in Python to identify accurate and best-performing model.

Fake News Detection with ML

- performed data cleaning and feature extraction on textual data using beautiful soup and regular expression.
- Textual embeddings are generated using the TF-IDF model, word2Vec, and bag of words. These embeddings were used to train models such as MLP classifier with one hidden layer, a passive-aggressive classifier, random forest, naive Bayes, and SVM and identified the best-performing model.