Meghana Bollepalli

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Education

University at Buffalo, The State University of New York — **Buffalo, NY**
MS Engineering Science, with a focus on Data Science — Jan 2022 – May 2023

Stanley College of Engineering — **Hyderabad, India**
Bachelor of Engineering in Computer Science and Engineering — Aug 2016 – Sept 2020

Technical Skills

Languages: Python, R, SQL, HTML, MATLAB.
Technologies and Tools: Jupyter, Visual Studio, PostGRE sql, Flask, Salesforce, MS Office, R Studio, GIT, Tableau.

Experience

Susheel Tvs — **Hyderabad, India**
Sales Analyst — Sept 2020 – Nov 2021

- Utilized cutting-edge technologies to produce insightful dashboards to see estimated annual sales growth of 5% over previous year for 20 production sites.
- Analyzed key performance metrics of 10 different automobile models and built informative reports highlighting trends and insights, resulting in an 8% increase in sales.
- Performed rigorous analyses of customer & market data to pinpoint best sales strategy and explore different scenarios, resulting in 5% YoY increase in total sales.

Netlinx Limited — **Hyderabad, India**
Web Application Intern — May 2019 – Oct 2019

- Developed web-based platform enabling efficient and streamlined approach to student's questions to instructors reducing response time by 70%.
- Assisted with cross-testing & debugging for desktop & mobile applications, ensuring a seamless execution that improved customer satisfaction.
- Explored monthly reports and send a daily report of test results to team members using HTML.

Projects

Data Scientist Salary Prediction | Python

- Conducted an analysis to forecast and extract important data on technologies needed with in data science industry.
- Visualized past salary data to identify patterns and develop predictive models, reducing variance of predictions by 40%.
- Performed linear, lasso, ridge regressions to get accuracy of model to predict average salary.

Book Recommendation System | R

- Developed a comprehensive recommendation system for a dataset consisting of 271,360 books and 278,000 registered users, resulting in improved user experience and engagement.
- Implemented content-based and collaborative filtering techniques to provide personalized book recommendations based on user preferences and book characteristics.
- Utilized data preprocessing techniques, such as feature selection and Gower distance method, to enhance the accuracy of the recommendation system and improve the relevance of suggested books.

Breast Cancer Diagnosis | Python

- Estimated if a breast cell is malignant based on features extracted from digital photographs of cells.
- Executed SMOTE, Bagging, Random Forest algorithms to construct a predictive model of breast cancer diagnosis accuracy.
- Identified bagging as most suitable model for breast cancer analysis.

My Music Taste Analysis | Python | Spotify API | Data Analysis | Visualization | Cluster Analysis

- Extracted and cleaned data from my personal Spotify account spanning 3 years to analyze monthly mood, music taste, and artist preferences.
- Employed various clustering algorithms such as KMeans, Agglomerative, Affinity Propagation, BIRCH, DBSCAN, and Mini-Batch KMeans to perform cluster analysis on the music data.
- Utilized Python, the Spotify API, and data analysis techniques to extract and preprocess the music data, ensuring accuracy and reliability of results.

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