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, HTML, Matlab.
Databases: MySQL, PostGRE SQL.
Techniques: Microsoft PowerBI Data Visualization, Statistical Data Analysis, Tableau, Big Query.
Web Technologies & Tools: HTML5, CSS3, Apache Spark, Jupyter, Visual Studio, Flask, Salesforce, MS Office, R Studio, GIT.

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.
- Collaborated closely with cross-functional teams, including sales, marketing, and production, to align strategies and achieve common goals. By fostering effective communication and teamwork, I contributed to a cohesive and synchronized approach that maximized sales growth and overall business success.

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.
- Demonstrated strong problem-solving skills by efficiently identifying and resolving technical issues during the development and testing phases. This proactive approach not only improved the functionality of the web platform but also contributed to a positive user experience for both students and instructors.

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.