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, SQL, Java.
Databases: MySQL, PostgreSQL, MongoDB, Microsoft Azure.
Techniques: Big Query, Advanced Excel (Pivot table), Data Analytics, API, Data management, Statistical analysis, Machine Learning.
Web Technologies & Tools: CSS3, Apache Spark, Tableau, Jupyter, Visual Studio, MS Word, MS Excel (Vlookup), GIT.
Tools: ETL, Power BI, Adobe Suite, Jira, Microsoft Suite, Agile Methodologies, Project Management, Stakeholder Engagement.
Soft Skills: Problem Solving, Predictive Modeling, Critical thinking, Communication, Teamwork.

Experience

Rean Foundation — **Lessburg, VA**
Data Analyst — Aug 2023 – Present

- Developed robust SQL queries and stored procedures to streamline data cleaning and transformation processes, ensuring data integrity and consistency across diverse sources and databases.
- Used Pandas, NumPy, seaborn, SciPy, Matplotlib, Scikit-learn, NLT in Python for developing various machine learning algorithms and utilized machine learning algorithms such as linear regression, multivariate regression, naive Bayes, Random' Forests, K-means, & KNN for data analysis.
- Expertise in advanced analytics concepts including clustering, regression, time series analysis, and sentiment analysis. Utilized these techniques to uncover hidden patterns and insights within complex datasets, providing valuable strategic guidance to stakeholders.
- Designed and implemented descriptive and inferential statistical analyses to optimize logistics operations, calculate average hours per job, and assess value throughput data with a confidence interval of 95%.
- Crafted visually compelling data reporting dashboards utilizing Excel and Tableau, incorporating pivot tables and VLOOKUP functions to present complex information in a clear and accessible format.

MAA TVS — **Hyderabad, India**
Associate Analyst — May 2019 – Nov 2021

- Implemented rigorous data cleaning and preprocessing techniques to maintain data integrity and quality. Developed automated processes to identify and address inconsistencies, outliers, and missing values, ensuring robust analysis outcomes.
- Demonstrated expertise in Data Analytics, Data Visualization, and Natural Language Processing to tackle complex challenges and drive organizational success.
- Executed custom cuts for gap analysis, facilitating comparative assessments between clients, world-class benchmarks, and competitor companies to drive performance improvements.
- Managed Stakeholder Surveys, analyzing respondent data to extract actionable insights and support strategic planning initiatives.
- Crafted visually compelling data reporting dashboards utilizing Excel and Tableau, incorporating pivot tables and VLOOKUP functions to present complex information in a clear and accessible format.

Projects

Breast Cancer Diagnosis

- 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.
- Expertly recognized and selected bagging as the most optimal model for conducting insightful breast cancer analysis.

Data Scientist Salary Prediction

- Diligently performed comprehensive analysis to meticulously identify and project critical technology trends within the ever-evolving data science sector.
- 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

- Forged a robust recommendation system for 271,360 books and 278,000 users, amplifying 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 accuracy of recommendation system and improve relevance of suggested books.