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, JavaScript.
Databases: MySQL, Postgre SQL, MongoDB.
Techniques: React JS, Statistical Data Analysis, Tableau, Big Query, Advanced Excel.
Web Technologies & Tools: HTML5, CSS3, Apache Spark, Jupyter, Visual Studio, Salesforce, MS Office, R Studio, GIT.

Experience

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

- Applied advanced data analytics tools and statistical methodologies to develop interactive dashboards for real-time visualization and analysis, resulting in a 5% annual sales growth across 20 production sites.
- Conducted sophisticated statistical modeling, including regression analysis and hypothesis testing, to evaluate KPIs for 10 automobile models, generating data-driven reports that unveiled actionable insights and an 8% sales increase.
- Utilized machine learning algorithms like decision trees and ensemble methods to optimize sales strategies, achieving a 5% YoY total sales increase through predictive modeling and scenario-based simulations.
- Orchestrated cross-functional collaborations, enabling the seamless integration of data-driven insights into sales strategies, contributing significantly to 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%.
- Led cross-testing & debugging for desktop & mobile apps, delivering seamless execution and notably elevating customer satisfaction.
- Explored monthly reports and send a daily report of test results to team members using HTML.
- Swiftly resolved technical challenges in development, enhancing web platform functionality and elevating user experience for students and instructors.

Projects

Data Scientist Salary Prediction | Python
- 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 | R
- 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.

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

Dance History | HTML, JavaScript, CSS, ReactJS, Python
- Spearheaded the creation of a comprehensive Dance Lineage network, facilitating connections between dancers and choreographers.
- Designed and implemented a secure login mechanism through social media platforms, enhancing user accessibility.
- Engineered an image retrieval system leveraging multiple API calls to enrich the application's content.
- Achieved exceptional user experience by optimizing website responsiveness across various devices and web browsers.