PREETHI SREE ALLAM

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EDUCATION

Masters: Data Science, University at Buffalo, The State University of New York, May 2024 Coursework: Data Science, Statistical Data Mining and analysis, Machine Learning, Data Structures, Algorithms and analysis, Multivariate Analysis, Digital Image Processing, Mathematics, Python, R, Statistics.

B.Tech: Mechanical Engineering, RVR AND JC COLLEGE OF ENGINEERING, July 2021

EXPERIENCE

Software Engineer, TATA CONSULTANCY SERVICES, Hyderabad, India: May 2021 - November 2022

- Enhanced data lineage using SQL and Power BI, creating interactive dashboards for data tracking and visualization, enhancing traceability and quality by 40%, and addressing data-related issues.
- Streamlined Oracle project by promoting data pipelines, revising efficiency, driving data-driven decisions, and optimizing management for future scalability and innovation.
- Received manager's commendation for exceptional dedication, compliance, problem-solving skills, communication skills, interpersonal skills, demonstrating initiative and outstanding performance in project challenges.

Internship, Bharat Heavy Electricals Limited (BHEL), Vizag, India: January 2019 - June 2019

- Mastered production processes and advanced in CAD and CATIA, driving design and development in engineering projects.
- Collaborated with a team of engineers to develop innovative rail track design solutions using CAD, CATIA, and MATLAB, revising design accuracy and project outcomes.

PROJECTS

Library System and Tracking: SQL,MySQL,Postgresql,Git

- Streamlined record management with SQL in the Library Management System, revamping student, book, and overdue item tracking.
- Utilized SQL for database operations and employed programming language Python for application layer development, focusing on query optimization and data manipulation.
- Implemented advanced database normalization techniques, reducing redundancy by 30% and revamping data integrity in library management system.

Sales Database System Development: SQL,Python, MySQL,PostgreSQL,Git

- Engineered a sophisticated sales database operating Python and SQL, integrating a data reconciliation framework to sharpen customer trend analysis. Streamlined data management, increasing strategic decision-making through in-depth insights.
- Automated data entry and crafted sales dashboards, improving performance tracking by 25% and optimizing decision-making efficiency, boosting analytical skills for data-driven quarterly sales strategies.

Micro-Plastic Detection Using CNN: Python, Machine Learning

- Identified micro-plastic particles (3-5 cm) on landscapes operating advanced object detection techniques.
- Implemented deep learning and image processing methods in TensorFlow to detect small plastic pieces with 95% accuracy.
- Automated process of detecting and removing micro-plastic from images and videos, increasing efficiency by 40%.

TECHNICAL SKILLS

Languages/Skills: Python,SQL,R,OOPS,C,C++,Powerpoint,Reports,Data Structures, Algorithms, Machine Learning,Data Interpretation,Data Visualization,Data analysis,Data Cleaning,ETL,Data Modeling, Cloud, Analytical Thinking,Communication,Time Management,Problem Solving,Critical Thinking.

Tools and Databases: Visual Studio,Jupyternotebook,MySQL,PostgreSQL,Power BI,Tableau,Informatica, Excel,Hadoop, Spark,Looker,SAS,Git,Pipelines,Django,Numpy, Pandas, Jira, Matplotlib, ApacheNiFi, SPSS, QlikView,Seaborn,Microsoft Azure,Microsoft excel.