Manideep Reddy Pothula

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I am a healthcare data analyst with a background in biomedical informatics and clinical research. Skilled in using SQL, Python, and data tools to analyze patient and clinical data. Experienced in working with EHR, drug safety, and regulatory data. Focused on helping improve patient care, support clinical decisions, and make research studies more effective.

Skills: Programming & Data Analysis: Python, SQL, Pandas, NumPy, Scikit-learn

Healthcare & Clinical Knowledge: EHR, HIPAA, cGMP, DSCSA, CDSS, healthcare operations, and clinical workflows.

Machine Learning & Analytics: Classification, Regression, Support Vector Machines (SVM), Feature Engineering, Predictive Analytics in Healthcare

Professional Experience

SQL Developer | Cognizant Technology Solutions, Hyderabad, India | Sept 2022 – July 2024

- Optimized SQL queries and improved performance by 30% using indexing and tuning.
- Automated data workflows for Google's geospatial systems, reducing manual errors by 25%.
- Created Power BI dashboards to visualize geospatial trends and support decision-making.

Intern | Aurobindo Pharma Ltd, Bachupally, Telangana, India| Sep 2021 – Sep 2021
- Participated in pharmaceutical manufacturing and quality control processes.
- Observed tablet coating operations and learned about machinery handling and setup.
- Gained exposure to drug formulation and blending techniques used in largescale production.

Undergraduate Research Assistant | Palamuru University, Telangana | *Oct 2021 – May 2022*
- Developed and validated a UV spectrophotometric method for Azithromycin quantification per ICH guidelines, enhancing lab skills in analytical chemistry and pharmaceutical quality control.

Projects

- Machine Learning Based Survival Analysis for Breast Cancer- Predicted patient outcomes using clinical and genetic data with ML models C-index 0.9798.Visualized risk and feature importance. https://www.oswego.edu/news/story/graduate-student-pushes-boundaries-breast-cancer-research
- Heart Disease Prediction System - Built an ML model (89% accuracy) for cardiovascular risk scoring; deployed via WordPress. https://pi.cs.oswego.edu/~mpothula/wordpress/
- Diabetes Prediction with Random Forest (2024)- Achieved 92% accuracy in early detection using Random Forest; identified key risk factors via feature importance analysis.
- Development of UV Spectrophotometry Method for Azithromycin-Built and validated a UV spectrophotometric method to quantify Azithromycin in API and dosage forms, following ICH guidelines for use in pharmaceutical quality control labs.

Education

M.S in Biomedical and Health Informatics | Suny Oswego, Syracuse, NY | Aug 2023 – Aug 2025
Bachelor's in pharmacy| Palamuru University, India | June 2018 – Aug 2022