LALITHA PRIYA BIJJA

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EXPERIENCE

Data Analyst Trainee - MedTourEasy, India **May 2023 to May 2023**

- Assisted in healthcare analytics by collecting and organizing patient and service provider data using **Google Sheets** and **Excel,** improving data accessibility by **30%** for internal teams.
- Developed **Power BI** dashboards tracking **20+** KPIs,
- Cleaned and pre-processed raw healthcare datasets using **Python (Pandas)**, reducing data inconsistencies by **40%**.
- Collaborated with operations to improve data accuracy, reducing manual entry errors by **25%.**

Data Analyst Associate - Morgan Stanley, India **April 2022 – May 2023**

- Analysed high-volume financial and operational datasets using **SQL** and **Python**, enabling insights that supported compliance with SEC reporting deadlines.
- Developed and maintained **Power BI** dashboards that monitored **20+ key metrics**, improving executive visibility and response time.
- Automated recurring data workflows using **Alteryx**, decreasing manual processing time by **50%**.
- Conducted rigorous data validation and anomaly detection, increasing data accuracy for internal reports by **35%**.

SKILLS

Python Programming, C, C++, MS-Excel, SQL, Database Management, Data Analysis, Machine Learning, Google Sheets, Problem solving, Communication skills, Pandas, NumPy, Matplotlib, Tableau, EDA, MySQL, R Programming, Data Mining, Pattern Recognition, Reinforcement Learning, Artificial Intelligence.

PROJECTS

Human Activity Recognition for abnormal activity Detection *link* **August 2024 – Dec 2024**

- Developed an AI-powered HAR system to classify activities using **LSTM** networks, detect abnormal movements, and send automated SOS alerts during emergencies with **<5** seconds response time.
- Achieved **92%** classification accuracy for human activities using LSTM-based deep learning models.
- Reduced false alarms by **10%** through anomaly detection.

Medical Imaging tool for Tuberculosis Classification: *link* **May 2024 – August 2024**

- Built a **Convolutional Neural Network (CNN)** that classifies chest X-rays as **Normal or TB-infected**.
- Pre-processed high-resolution grayscale images (**238** chest X-rays) and resized them to **256×256** pixels.
- Achieved **100% test accuracy** & Precision, Recall, F1- score -**1.0**.

Point of Interest Recommendation Location Based Social Networks: *link* **July 2022 – Oct 2022**

- Developed a Location-Based Recommender System using **Collaborative Filtering** and **Singular Value Decomposition** (SVD) to enhance recommendation accuracy.
- Achieved low **RMSE 0.961**, high precision &recall with high dataset sparsity of **99.4%** improving spatial-aware recommendations.
- Optimized for scalability and cold-start issues, efficiently handled **2321** users & **5596** locations.

EDUCATION

University of South Dakota, SD - *Master of Science in* ***Computer Science***
Coursework: AI, ML, Pattern Recognition, Quantum Computing, Computer Vision, Applied Reinforcement Learning

Pallavi Engineering college, India - *Bachelor of Technology in* ***Computer Science***
Relevant coursework: Artificial Intelligence, Data Mining, Machine Learning

EXTRA CURRICULAR ACTIVITIES

- Active volunteer in “Leaders of the changing society”: University of South Dakota.
- Member - Association for Computing Machinery (ACM) club at University of South Dakota.
- Volunteered in refurbishment activities of Childcare center at Le Mars, IA