TEJASWI MAHADEV

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PROFESSIONAL SUMMARY

AI/ML Enthusiast and motivated machine learning undergraduate with experience in data analysis, algorithm development, and research. Proven ability to collaborate on interdisciplinary projects and apply cutting-edge techniques in machine learning. Seeking opportunities to contribute to AI-driven projects in a challenging environment that fosters continuous learning.

EDUCATION

Bachelor of Technology, Computer Science 2022 – Present
Malla Reddy University, Hyderabad
Minor: Artificial Intelligence and Machine Learning CGPA:
8.98/10

Intermediate Education 2019 – 2021
Sri Chaitanya Junior Kalasala, Hyderabad Grade:
Distinction

EXPERIENCE

Academic Research Assistant July 2024 – September 2024
Dr. Jnan Yalla, Malla Reddy University, Hyderabad

- Conducted research on classical and quantum optimization techniques for financial portfolio management.
- Analyzed performance differences between traditional and quantum models, conducting extensive simulations on large-scale datasets to evaluate performance in complex financial scenarios.
- Contributed to literature review and research publication on quantum machine learning applications.

Machine Learning Trainee June 2024 – August 2024
SmartLearn EdTech, Hyderabad

- Explored convolutional neural networks (CNN) and generative models, collaborating on product development by applying TensorFlow and Keras libraries.
- Optimized feature extraction algorithms, reducing data processing time by 20% and increasing overall model accuracy by 15%

Project Showcase Participant July 2024
IntelliThon, Malla Reddy University, Hyderabad

- Spearheaded the design and development of a healthcare assistant chatbot for symptom diagnosis.
- Integrated generative AI to enhance patient-doctor interactions.

PROJECTS

Movie Recommendation System Academic Project

- Developed a hybrid movie recommendation system using collaborative filtering, content-based filtering, and matrix factorization techniques.
- Utilized the Scikit-learn and Surprise libraries to build and fine-tune recommendation models, achieving 85
- Integrated similarity metrics such as cosine similarity and Pearson correlation for better user and item-based recommendations.
- Implemented advanced model evaluation techniques like Root Mean Squared Error (RMSE) and Mean Absolute Error (MAE) to measure accuracy.

- Designed an interactive UI with Streamlit, enabling users to explore personalized movie suggestions based on their preferences.

Library Management System Academic Project

- Engineered an efficient library management system using SQLite as the database backend and Streamlit for a user-friendly interface.
- Implemented CRUD operations (Create, Read, Update, Delete) and advanced search functionality for books, enhancing efficiency by 25
- Utilized regular expressions and search algorithms for better book categorization and retrieval based on title, author, and genre.

Budget Tracking and Management System Academic Project

- Created a budget tracking tool using Python and machine learning models such as Support Vector Regression (SVR) and Linear Regression.
- Developed predictive models using time series forecasting techniques, enabling users to anticipate future spending trends and make informed financial choices that enhanced budgeting confidence among active app users.
- Integrated data visualization tools like Matplotlib and Plotly to provide clear graphical representations of spend- ing trends.

SKILLS

Programming Languages: Python, Java, SQL
Machine Learning AI: Deep Learning, Generative AI, Model Optimization,Natural Language Processing (NLP)
Libraries & Frameworks: TensorFlow, Keras, PyTorch, Scikit-learn, NumPy, Pandas,OpenCV
Database Management: MongoDB, SQLite,Firebase
Frontend Development: HTML, CSS, JavaScript
Data Visualization: Matplotlib, Plotly
Tools: Jupyter Notebook, VS Code
Soft Skills: Problem Solving, Communication, Leadership, Analytical Thinking

CERTIFICATIONS

Scalable Machine Learning on Big Data using Apache Spark – Coursera (IBM)

Introduction to Data Analytics – Coursera (IBM)

AI for Everyone – Coursera (DeepLearning.AI)

Introduction to Cybersecurity Tools and Cyberattacks – Coursera (IBM)

Introduction to MongoDB – MongoDB University