# Tejaswi Mahadev

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#### **EDUCATION**

# Malla Reddy University

Bachelor of Technology in Computer Science Engineering, Specialization in AIML

Hyderabad , Telangana Sep. 2022 - Present

Sep. 2022 - Present

#### Sri Chaitanya Junior College

Intermediate

Hyderabad, Telangana *Apr.* 2020 – May 2022

# EXPERIENCE

# Machine Learning Research Assistant

Jul 2024 - Sep 2024

IIIT, Hyderabad

Dr.Jnan Yalla

portfolio management using a 10-year dataset of 10 stock tickers.

• Achieved a Sharpa Ratio of 0.07585, expected returns of 0.30532, and minimized veletility to 0.17820 using

Conducted academic literature reviews and researched classical and quantum optimization techniques for financial

- $\bullet$  Achieved a Sharpe Ratio of 0.97585, expected returns of 0.30532, and minimized volatility to 0.17829 using quantum methods.
- Benchmarked performance, finding classical methods outperformed quantum in 84 percent of cases for small datasets, while quantum excelled in complex portfolio optimization.

# PROJECTS

ShowShuffle | Python, Advanced Machine Learning, Collaborative Filtering

- \* Developed a hybrid recommendation system combining collaborative filtering, content-based filtering, and matrix factorization.
- \* Achieved 85% accuracy using Scikit-learn and Surprise libraries.
- \* Built an interactive Streamlit-based UI for personalized recommendations.

#### **CURA** | Python, Generative AI, Healthcare AI

- \* Developed an AI-powered healthcare chatbot using generative AI for symptom-based diagnosis, medication suggestions, and doctor recommendations.
- \* Enhanced response accuracy by leveraging advanced LLMs for medical consultations.

### **SWIFT** | Python, Machine Learning

- \* Built a predictive budgeting tool using ML models (SVR, Linear Regression)
- \* Improved budget forecasting accuracy by 18% compared to traditional models.
- \* Employed Matplotlib and Plotly for dynamic visualization of spending trends.

#### CSV Enrichment Tool | AI. Data Processing

- \* Automated web-based entity searches to enrich CSV datasets with APIs like SerpAPI and Gemini.
- st Created a customizable query interface for targeted enrichment based on column data.
- \* Developed an interactive Streamlit dashboard, reducing manual efforts by over 80%.

# **Telegram AI Agent** | Python, Generative AI, Telegram Bot

- \* Developed a Telegram AI agent powered by Google Generative AI, handling over 1,000+ queries with natural language processing.
- \* Integrated MongoDB for storing chat history and user interactions, improving response personalization.
- \* Implemented image processing, allowing users to send and receive AI-generated insights on images.

#### TECHNICAL SKILLS

**Languages**: Python , Javascript , Java , C / C++ , SQL

Frameworks: React, Node.js, Flask, WordPress, Streamlit, FastAPI, Langchain Developer Tools: Git, Github, Google Cloud Platform, VS Code, Vercel, Docker Libraries: pandas, NumPy, Matplotlib, plotly, seaborn, google generative AI Soft Skills: Collaboration, Research, Problem-Solving, Communication, Adaptability