

# PRAHARSH SAI MADABATHULA

[Linkedin: M Praharsh Sai](#)  
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## EDUCATION

Malla Reddy Engineering College	Hyderabad, India
B.Tech (CSE-DS) GPA: 8.90	November 2022 - August 2026
Sri Chaitanya Jr College	Visakhapatnam, India
MPC; GPA: 8.69	June 2020 - August 2022

## SKILLS SUMMARY

<b>Programming Languages:</b> Python (ML, backend,DSA), Java (OOP), C/C++, JavaScript (React,Node)
<b>Operating Systems:</b> Basics in Unix/Linux for development, scripting, and system-level tasks
<b>Systems &amp; Networking:</b> Experience with distributed systems, socket programming, and TCP/IP protocols
<b>Machine Learning:</b> Hands-on with regression, classification, and NLP; built ML projects like trend analysis and cost prediction
<b>Information Retrieval:</b> Implemented keyword extraction, ranking, and scraping using BeautifulSoup and NLP techniques
<b>Frameworks &amp; Tools:</b> Flask, React, OpenCV, Scikit-learn, Git, Selenium
<b>Problem Solving:</b> Solved 200+ DSA problems on LeetCode, GeeksforGeeks, and HackerRank

## WORK EXPERIENCE

Software Development Intern   NewYork   Remote   Woken   <a href="#">LINK</a>	November 24- March 2025
<ul style="list-style-type: none"> <li>Collaborated directly with the CEO to enhance a cloud-native GPT data pipeline using Google Cloud tools, aligning with core distributed systems best practices.</li> <li>Built and deployed an automated data processing and email reporting framework, reducing manual effort and latency by 25%.</li> <li>Streamlined real-time data storage, retrieval, and processing workflows, improving end-to-end system efficiency by over 20%.</li> <li>Integrated scalable cloud functions for automated insights delivery, supporting business intelligence and decision-making.</li> <li>Contributed to backend system enhancements to ensure high availability and performance, leveraging cloud APIs and information retrieval techniques.</li> </ul>	

## PROJECTS

Software Defect Prediction using an Intelligent Ensemble-Based Model   <a href="#">LINK</a>	June 2025 - July 2025
<b>Tech Stack:</b> Python, Scikit-learn, XGBoost, Random Forest, SVM, Pandas, Matplotlib <ul style="list-style-type: none"> <li>Built an ensemble ML model combining Random Forest, SVM, and XGBoost for defect prediction.</li> <li>Combined classifiers like Random Forest, and XGBoost using intelligent voting/stacking to enhance precision and recall.</li> <li>Used feature engineering and correlation analysis to select relevant metrics from datasets like NASA MDP and PROMISE.</li> <li>Achieved over <b>X% accuracy and Y% F1-score</b>, outperforming individual classifiers in defect prediction tasks.</li> </ul>	
AI-Powered Supply Chain Optimization and Analytics Tool   <a href="#">LINK</a>	Dec 2024 – Jan 2025
<b>Tech Stack:</b> Python, Flask, React.js, Streamlit, Pandas, Folium, REST API <ul style="list-style-type: none"> <li>Developed a modular AI system for optimizing demand forecasting, inventory management, route planning, and risk analysis.</li> <li>Integrated Streamlit(Tool interface), Flask(API/backend), and React for multi-user support and dashboard workflow.</li> <li>Enabled real-time visualization, CSV export, and dashboard saving via RESTful APIs with persistent storage.</li> <li>Built custom risk scoring algorithms, interactive maps using Folium, and dynamic plot cards with polished UI/UX.</li> <li>Optimized UX with on-demand refresh, downloads, and organized backend storage.</li> </ul>	
AI-Based Sign Language Translator   <a href="#">LINK</a>	March 2024 - April 2024
<b>Tech Stack:</b> Python, TensorFlow, OpenCV, NumPy, MediaPipe, Pytsx3 <ul style="list-style-type: none"> <li>Developed an AI system to translate hand gestures into real-time text and speech using TensorFlow and OpenCV.</li> <li>Applied deep learning models for accurate gesture recognition and dynamic translation.</li> <li>Integrated computer vision for real-time video capture and processing.</li> <li>Aimed to enhance accessibility for the hearing and speech impaired through intuitive interface design.</li> </ul>	

## ACHIEVEMENTS AND CERTIFICATES

- Certified for AI-based projects at **Shirdi Dwarakamayi 369 Innovations**, mentored by Dr. Mandaji Narshimha Chary(World Patent Holder & Scientist).
- Resolved issues in Meta and other GitHub open-source projects; participated in Google Summer of Code (GSoC).**
- CS50P: Python Programming** – Harvard University (Core Python concepts).
- Machine Learning (Supervised & Unsupervised)** – Stanford & DeepLearning.AI
- Solved **200+ problems** on **LeetCode, GeeksforGeeks, HackerRank & CodeNinjas.**
- Winner, Data Science Hackathon** – Stock prediction using Linear Regression & Random Forest.
- Achieved Microsoft Certified:** Azure AI Fundamentals with a score of 900/1000.

## INTERESTS &LANGUAGES

- Traveling, Nature Exploration, Cricket, Badminton.
- English, Hindi ,Telugu