MANJU BODI

Bachupally, Hyderabad, Telangana 500090

📞 +917981367371   ✉ manjubodi123@gmail.com   in linkedin.com   ⬤ GitHub

Education

Gokaraju Lailavathi Engineering College   Nov. 2022 - Jul 2026

Bachelor of Engineering in Computer Science and Engineering, Cum. GPA: 9 / 10   *Hyderabad, Telangana*

Experience

Hack4SDG — IITH   Oct 2024 - Oct 2024

Top Project Recognition Among 200 Teams   *Indian Institute of Technology, Hyderabad, Telangana*

- Awarded an **Honorable Mention** for Carbon Compass, chosen as one of the standout projects among 200 competing teams in the Climate Action domain (SDG-13).
- Developed a solution recognized for its **potential** to help achieve the **UN's Climate Action goals** by 2030, addressing over 36 billion metric tons of annual CO_2 emissions through data-driven insights and personalized recommendations

GirlScript   Nov 2024 - Nov 2024

Open Source Contributor

- Raised 2 issues in **open-source projects**, contributing to impactful open-source projects and discussions on potential improvements, demonstrating problem-solving and issue-tracking skills
- Gained hands-on experience with open-source development workflows, version control

Projects

Smart Civic Management & Safety System | *React Native, Groq (LLaMA), Node.js, GPS, ML*   [Link]

- Manufactured **two interconnected apps** and enabled issue tracking and upvoting, increasing visibility of top-priority complaints by **x2**
- Integrated **Groq-backed LLaMA chatbot** for legal rights Q&A, delivering real-time civic guidance in **<5s latency**
- Engineered **officer safety workflows** using inactivity-triggered (2-3 mins) SOS with GPS escalation
- Leveraged **Random Forest** to dynamically assess complaint severity risk, boosting safety for authorities by **70%**

Carbon Compass | *React JS, TypeScript, Firebase, Generative AI*   [Link]

- Architected an **AI-driven sustainability platform** with **80%+** data retrieval efficiency
- Crafted **personalized insights** and carbon reduction recommendations with **Gemini API**, boosting user engagement by *40%* through targeted suggestions.
- Incentivized sustainable behavior through a **real-time** leaderboard and rewards system, targeting **20% per-user carbon reduction**
- Maintained **99%** feature uptime through Firebase Authentication and Firestore for secure, reactive data access

Product Usage Forecasting & Churn Prediction | *Prophet, Scikit-learn*

- Analyzed **2.5M+** user events from a clickstream data to extract **actionable behavior trends**
- Devised a **Time Series Forecasting Model** using Prophet, achieving **93%** R^2 in predicting future feature adoption rates
- Formulated a **regression-based churn** prediction pipeline with **99% accuracy**, empowering targeted retention campaigns and reducing customer drop-off

RSS Aggregator | *Go, PostgreSQL, Git*   [Link]

- Constructed an end-to-end **Go-based backend system** to automate periodic RSS feed updates, cutting manual processing time by **90%**
- Robust error handling and logging to ensure **99%** uptime and reliability
- Designed a PostgreSQL schema with optimized indexes, enabling **sub-100ms query response** times for high-volume feed access

Technical Skills

Core skills: App & Web development, Machine Learning, Deep Learning, NLP, Generative AI
Programming Languages: Python, Go, Java, JavaScript, TypeScript, C
Libraries and Frameworks: React.js, React Native,TensorFlow, Keras, Node.js, Scikit-learn, Firebase, Express.js
Databases: SQL, MongoDB, PostgreSQL, SQLC, Goose
Others: Git, Arduino, ESP32, Prompt Engineering, Agile, Version Control
Linguistic Languages: English, Telugu, Hindi, German

Achievements and Awards

- 3x Hackathon winner
- Placed 4446/18191 in 142D contest - CodeChef
- 2024 1st Web Race (web page replication), GRIET