Maddula Ram Gopal

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SUMMARY

Computer Science student with hands-on experience in **full-stack web development, machine learning, and artificial intelligence**. Skilled in **building responsive web applications** and **applying ML algorithms** to real-world datasets. Completed **internships and academic projects** in web development and data science, demonstrating strong technical and collaborative abilities. Seeking an opportunity to apply skills in a role that supports continuous learning and innovation..

SKILLS

- Programming Languages : Python , Java , C , HTML , CSS , Javascript , PHP
- Frameworks & Libraries : MERN Stack (MongoDB, Express.js, React.js, Node.js), JUnit (Basic), Mockito (Basic), SLF4J(Basic)
- Databases & Storage: MySQL, PostgreSQL, SQL, Redis , PL/SQL
- Tools & Platforms: Git, GitHub, VS Code, Power BI , Eclipse
- Core Concepts & Principles : Object-Oriented Programming (OOP), Data Structures & Algorithms

PROFESSIONAL EXPERIENCE

Data Science Intern May/2025 – June/2025
Skilldzire Remote
- **Cleaned and preprocessed** survey data (500+ responses) using **Pandas & NumPy**, improving dataset quality and ensuring reliable analysis.
- **Performed EDA and visualization** with **Matplotlib & Seaborn** on **500+ survey responses**, uncovering key trends in **age, gender, and clothing preferences**, which provided **3 actionable consumer insights** for fashion design decisions.
- **Built predictive models** (**Random Forest, Logistic Regression**) that achieved **up to 90% accuracy**, enabling **data-driven recommendations** and improving classification performance by **15% compared to baseline methods**.

Web Development Intern May/2024 – June/2024
Prodigy Infotech Remote
- **Created** 6+ responsive websites with **cross-browser compatibility**, boosting engagement by **30% within 2 weeks** and improving client satisfaction by delivering projects **20% ahead of schedule**.
- **Optimized performance** by building reusable **JavaScript components**, reducing page load time by **15%** and enhancing Lighthouse scores.
- **Created 5+ interactive web applications** including a **Portfolio Website, Weather App (OpenWeather API), Tic-Tac-Toe Game, Stopwatch, and a Responsive Navigation Bar**, demonstrating **full-stack development skills** and improving **usability and engagement for 50+ test users**.

PROJECTS

Blood Bank Management System 🔗
Tools : ReactJS , MongoDB , ExpressJS , NodeJS (MERN) , CSS
- **Build** a **MERN-based Blood Bank Management System** as a **Mini Project** with donor registration, blood inventory tracking, and recipient request modules, improving operational efficiency and reducing manual errors by **40%**.
- **Integrated MongoDB database** for real-time blood availability updates, ensuring secure storage and reducing **data retrieval time by 40%**, while minimizing errors in donor/recipient records.
- **Built a responsive UI** using **React.js and CSS**, improving usability and reducing **administrative workload by 30%** through an intuitive interface for donor and recipient management.

Texture Classification using Local Vector Quantization Pattern
Tools : Digital Image Processing , Matlab
- **Applied digital image processing techniques** on benchmark datasets (Outex, UIUC, CUReT, Brodatz), achieving **up to 95% classification accuracy** under varying illumination, rotation, and scale conditions.

- **Developed and tested** a novel **LVQP-based texture classification model in MATLAB**, achieving **up to 95% accuracy** on **10,000+ texture images** and improving noise robustness by **15–20%** compared to traditional LBP and LTP methods, with findings **published/co-authored in an IEEE Xplore transaction paper**.
- **Enhanced feature extraction** by quantizing complete difference vectors, generating **25% more discriminative descriptors** and improving **pattern recognition reliability across 4 benchmark datasets (Outex, UIUC, CUReT, Brodatz)** under variations in **illumination, rotation, and scale**.

EDUCATION

B.Tech (Information Technology) - 9.47 — Present
R.V.R & J.C College of Engineering — Guntur

Intermediate (M.P.C) - 950/1000 — 04/2022
Srinidhi Junior College — Tiruvuru

SSC - 570/600 — 03/2020
Vision High School — Tiruvuru

CERTIFICATES

Python 101 for Data Science - Cognitive Class, June 2024 ✐

Java - Hacker Rank , 07 April 2024 ✐

SQL - HackerRank , 07 April 2024 ✐

Full Stack Development - Infosys , 17 April 2024 ✐

Machine Learning - Infosys , 30 April 2025 ✐

UrbanX: Rethink, Design, and Hack Your City's Future" Hackathon (17–18 Dec 2024), organized by IEEE IES R.V.R & J.C. CE Student Branch Chapter ✐

ACHIEVEMENTS & VOLUNTEERING

- **Volunteered at CISSOR IEEE, IDE Bootcamp, ISRO programs, Informatrix, GNOME, and IDCC**, contributing to **technical workshops, outreach programs, and collaborative projects** that engaged **150+ participants**, fostering **knowledge-sharing, open-source contributions, and teamwork in STEM initiatives**
- **Secured 1st place** in **Folk Group Dance competition at KL University**, showcasing creativity and teamwork.
- **Achieved 3rd place** in **Volleyball tournament at college level**, demonstrating sportsmanship and collaborative spirit.