KOMMANA ROSHITHA

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SUMMARY

Passionate and goal-oriented Computer Science student with a strong foundation in web development, artificial intelligence, machine learning, cloud computing, and UI/UX design. Skilled in building scalable, user-centric applications and integrating modern technologies to enhance functionality and performance. Demonstrates a continuous learning mindset and seeks opportunities to contribute to impactful projects while advancing as a full-stack developer

EDUCATION

Maharaj Vijayaram Gajapathi Raj (MVGR) College of Engineering **2022-2026**
B.tech , Computer Science and Engineering CGPA:8.53

Sri Chaitanya Junior College **2020-2022**
Intermediate - MPC 74.8%

Sri Chaitanya Techno School **2019-2020**
SSC 99.8%

SKILLS

Languages: Java,Python, C++, C , HTML, CSS, JavaScript, Tailwind CSS, React.js
Backend & Databases: Firebase, MongoDB , MySQL
Tools & Libraries: OpenCV, Tesseract OCR , Git, VS Code
Concepts: OOP, DBMS, Data Structures, Machine Learning, Big Data, UI/UX Principles

ACADEMIC PROJECTS

DonateEase | Web-Based Donation Platform **Dec 2024-Feb 2025**

Technologies: HTML, JavaScript, Firebase, Cloudinary

- Built a web application enabling users to donate across 4 categories (money, clothes, books, electronics)
- Integrated QR-based UPI payments and Cloudinary API for secure screenshot storage
- Enabled conditional dynamic forms with validations and Firestore-based data persistence
- Achieved 100% functional donation tracking and improved submission accuracy

Helmet Detection Using YOLO – Real-Time Object Detection **Nov 2024-Dec 2024**

Technologies: YOLO, Python, OpenCV, Deep Learning, Darknet, TensorFlow, PyTorch

- Developed a real-time helmet detection system using the YOLO (You Only Look Once) object detection algorithm
- Processed live video streams to detect and classify individuals based on helmet usage for safety compliance
- Implemented bounding box annotations to differentiate between helmeted and non-helmeted persons
- Optimized detection pipeline for real-time performance with low latency and high accuracy
- Designed for deployment in industrial environments, construction sites, and traffic surveillance systems

Smart OCR | Automated Text Extraction System **July 2024-Oct 2024**

Technologies: Python, OpenCV, PyMuPDF, Tesseract

- Built an OCR pipeline to extract text from scanned PDFs and images
- Applied preprocessing (grayscale, denoising, thresholding) for improved accuracy
- Used Tesseract to convert images to structured, machine-readable text
- Designed for document digitization and automated data extraction tasks

INTERNSHIPS

AI/ML Virtual Internship – EduSkills x Google

Duration: 10 Weeks (Remote)

- Implemented supervised and unsupervised learning algorithms
- Worked on classification and regression models using Scikit-learn and NumPy
- Gained experience in data preprocessing, model training, and evaluation

CERTIFICATIONS

- AWS Academy Cloud Foundations – Amazon Web Services (2024)
- Cloud Computing certification by NPTEL.
- Frontend Web Developer from Infosys Spring Board
- Accenture Software Engineering Virtual Internship – Forage (2025)