Remalla Ratna Kowshik

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Career Objective

Driven and ambitious B.Tech student with a passion for excellence and pro active approach to learning. Committed to delivering high quality results with a strong work ethic and unwavering dedication. Seeking opportunities to leverage technical expertise and innovative thinking to contribute to the success of a dynamic organization while continuously enhancing personal and professional growth.

Education

Shalome Church English Medium School　　　　　　**Guntur, Andhra Pradesh**
Secondary School, GPA: 9.8/10　　　　　　　　　　　　　　　　　　*2020*

Vignan Cooperative Juniour Collage　　　　　　　　**Vadlamudi, Guntur**
Intermediate in MPC (Maths, Physics & Chemistry), Score: 827/1000　　*2020–2022*

Veltech University　　　　　　　　　　　　　　　　　　　　**Chennai**
Bachelor of Technology in Artifical Intelligence and Data Science, GPA: 8.2　　*2022–2026*
Relevant Coursework: Machine Learning, Database Systems, Web Development.

Projects

Transforming Agriculture with AI: Automated Crop Disease Diagnosis : Developed an AI-powered crop disease detection system using deep learning and CNNs, with image preprocessing, feature extraction, and transfer learning (ResNet, VGG16). Integrated Grad-CAM for explainability and deployed with TensorFlow Lite. The platform includes an e-commerce module for agricultural products, offering AI insights and seamless purchasing for farmers.

Eye Disease Detection Using Machine Learning: This project uses machine learning and deep learning to detect eye diseases from retinal images. It applies image preprocessing, CNN-based classification with ResNet transfer learning, and Grad-CAM for explainability. Deployed via a web interface, it provides real-time predictions, aiding early disease detection and supporting remote healthcare.

SONAR Rock and Mine Detection Using Machine Learnig: Developed a Sonar Rock and Mine Detection System using machine learning to classify sonar signals as rocks or mines. The system provides real-time predictions through feature extraction, integrated with a web platform for data upload, classification, and visualization. Deployed with a Flask backend and responsive frontend, enhancing maritime safety and operations.

Hospital Management System In Web Development: Developed a real-time web application using Flask, Node.js, and React to monitor and respond to patient queries. Flask handled API requests and database management, while Node.js enabled real-time communication via WebSockets. The React frontend offered an interactive interface for patients to submit queries and receive instant

responses.

Personal Portfolio Website: Created a personal portfolio website to showcase software development projects, including AI-driven applications and machine learning models. Highlights include Crop Disease Detection, Eye Disease Detection, and Sonar Rock and Mine Detection. Demonstrates proficiency in full-stack development with HTML, CSS, JavaScript, and Flask, offering project descriptions, code snippets, and interactive demos.

Technical Skills

Programming Languages: C, Python, Java, SQL, R

Web Development: HTML, CSS, Javascript, Bootstrap, PHP, Flask

Javascript libraries: Angular.js, JQuery, React.js

Tools: Google Collaboratory, MySQL, Jupyter Notebook, VS Code, Dev C++, Eclipse IDE

Certificates

🔗Java Programming certificate from Infosys
🔗Full Stack Developer Certificate from SimpliLearn

Interests

Technology: Web Development, Machine Learning, Database management, Data Analysis, Internet of Things.

Hobbies: Photography, Reading Books,Palying Cricket, Watching Movies & Series