Remalla Ratna Kowshik

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Career Objective

A passionate B.Tech student in Artificial Intelligence and Data Science, focused on applying AI and ML technologies to real-world challenges. Dedicated to continuous learning, problem-solving, and delivering impactful, user-centric solutions.

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

Domains: Web Development, Machine Learning, Database Management, Data Analysis, IoT.

Experience

GrowthLink   **Web Developer (Internship)**

Duration: 25th February, 2025 – 25th March, 2025

- Developed a fully functional, scalable, and responsive web application as part of a web development internship.

- Implemented key features to ensure smooth performance, user-friendly design, and efficient functionality.

Projects

Transforming Agriculture with AI: Automated Crop Disease Diagnosis:

- Built an AI-based crop disease detection system using CNNs, transfer learning (ResNet, VGG16), and Grad-CAM to enhance model explainability, achieving an accuracy of 94%.

- Deployed the model with TensorFlow Lite and integrated an e-commerce platform for seamless agricultural product purchasing.

SONAR Rock and Mine Detection Using Machine Learning:

- Built a machine learning model for real-time classification of sonar signals as rocks or mines, achieving a prediction accuracy of 89%.

- Integrated the solution with a Flask backend and responsive frontend for live data upload and visualization.

Hospital Management System In Web Development:

- Developed a real-time hospital management web app using Flask APIs, Node.js WebSockets, and a React frontend, maintaining 99.9% uptime during testing.

- Enabled live patient queries, instant responses, and database management for efficient hospital operations.

Education

Vignan Cooperative Junior College   **Vadlamudi, Guntur**

Intermediate in MPC (Maths, Physics & Chemistry), Score: 827 / 1000   *2020–2022*

Veltech University   **Chennai**

Bachelor of Technology in Artificial Intelligence and Data Science, GPA: 8.2   *2022–2026*

Hobbies

Photography, Reading Books, Playing Cricket, Watching Movies & Series