

Harinath Pokuru

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SUMMARY

Computer Science and Engineering student specializing in Artificial Intelligence and Machine Learning, with strong foundations in programming (Java, Python, HTML, CSS) and modern web development frameworks. Hands-on experience through projects and internship work in AI-based food recognition, full-stack application development, and database management. Skilled in problem-solving, data-driven decision-making, and collaborative teamwork. Eager to contribute technical expertise and creativity to innovative software development and AI-driven solutions.

EDUCATION

Bachelor's in Computer Science and Engineering(AIML), Mohan Babu (CGPA: 9.36/10) Jul'22 — Jul '26
University, Tirupati, India

TECHNICAL SKILLS

- **Programming Languages:** Java, HTML, CSS, JQuery, PHP, Bootstrap, Python(basics)
- **Frameworks and Tools:** Spring Boot, Django, REST APIs
- **Database Technologies:** SQL
- **Developer Tools:** Jupyter Notebook, VS Code, XAMPP, Eclipse, Colab

PROFESSIONAL EXPERIENCE

AI/ML Intern | Hubexus Solutions Pvt Ltd, Vishakhapatnam, India Jun 25 – Present

- Built an ML-based food recognition system using EfficientNetB4, Flask, and OpenCV, achieving 92% classification accuracy in detecting food items and automatically generating nutritional insights (calories, protein, carbs, fat).
- Developed an end-to-end image processing pipeline with preprocessing, model inference, and Excel-backed REST APIs, improving data retrieval efficiency by 30%.
- Designed and deployed a responsive web application enabling image uploads, prediction visualization, feedback submission (star ratings), and contact forms, capturing 100+ user interactions weekly for backend analytics.

PROJECTS

Farmer Selling Online Goods: Static website that enables farmers to showcase and sell agricultural products directly to consumers via an online storefront.

- Created a desktop-friendly interface using HTML, CSS, and JavaScript for seamless browsing and interaction.
- Developed core features like product listing, add-to-cart functionality, and basic order summary using vanilla JavaScript.
- Designed a clean layout with CSS styling to present product details, prices, and seller information clearly.

Campus Bridge – Integrated LMS & Coding Platform: Full-stack web application offering academic learning, coding practice, and performance tracking through student, faculty, and admin portals.

- Built a full-stack web application (HTML, CSS, JS, Bootstrap, PHP, MySQL) with student, faculty, and admin portals.
- Implemented coding tutorials, quizzes, online compiler, and resume builder to enhance academic and career readiness.
- Added features like chatbot, dynamic assessments, progress tracking, and responsive design for multi-device access.

Food Recognition and Calorie Measurement: ML-Based Nutrition Detection System using AI-Driven.

- Developed a full-stack web application using Python, Flask, EfficientNetB4, HTML, CSS, JavaScript, trained on a Kaggle food dataset and tested via Google Colab for predicting food category and nutritional values.
- Implemented image upload with Predict, Save, and Reset actions showing food class, calories, confidence, carbs, protein, fat, and saturated fat; predictions and feedback stored as Excel files in the backend.
- Built responsive frontend with sections like Contact Us, About Us, Food Items List, and Feedback, supporting dynamic form submissions, star-based feedback ratings, and real-time data storage.

Kidney Stone Detection using YOLOv8x: DL-Based Stone Detection System using AI-Driven.

- Built a deep learning-based detection model using YOLOv8x to accurately identify and localize kidney stones from annotated medical images.
- Optimized dataset with preprocessing and augmentation techniques, achieving high accuracy and reliable real-time inference for diagnostic support.
- Implemented model evaluation with mAP, IoU, precision, and recall, ensuring strong performance and clinical applicability.

CERTIFICATIONS

- Java Full Stack in Eduskills Dec'24 – Jan'25
- Web Development in Hackathon Apr'25
- Java11 in LinkedIn MyLearning Jun'24 – Jul'25