

Pakalapati Jyoshna Varma

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Professional Summary

B.Tech Computer Science (AIML) student with hands-on experience in Python, AI/ML, and web development. Built intelligent systems across education, healthcare, and sustainability using Flask, MongoDB, and ML models. Currently researching AI solutions to reduce cognitive load in learning. Quick learner, project-driven, and eager to contribute to impactful tech innovations.

Education

Bachelor of Technology in Computer Science (AIML)

KG Reddy College of Engineering and Technology

Expected Graduation: 2026

Higher Education: Narayana Junior College – Marks: 978

Secondary Education: Annapurna High School – Grade: 97%

Skills

- Programming Languages: Python, C
- Front-End: HTML, CSS, JavaScript
- Back-End: Node.js, Express
- Tools & Technologies: Git, VS Code, Flask, Django, MySQL, MongoDB (Basics)
- AI/ML: Basics of Artificial Intelligence, Machine Learning, and Data Science

Projects

- AI - Powered Support for Learning and Teaching

Developed a web-based platform using Flask and MongoDB that leverages AI to dynamically generate quizzes (via Groq API), automatically assess answers, and provide personalized feedback and targeted study recommendations. Integrated AI-driven performance tracking and user categorization to enhance learning outcomes and support educators with actionable insights.

- Handling Big Data Using AI in Healthcare System

Developed a healthcare data management solution leveraging convolutional neural networks (CNNs) to analyze large patient datasets for early disease prediction and

automated diagnosis. Enhances data accessibility, automates patient record updates, and improves prediction accuracy for timely clinical decisions.

- Smart Serve – AI Powered Food Waste Management System

Led the development of an AI-driven solution to minimize restaurant food waste using predictive analytics and ML. Implemented surplus forecasting, NGO donation matching, expiry alerts, and sustainability tracking. Delivered a Streamlit dashboard for real-time insights, improving food utilization and promoting sustainability.

- AlertAura – AI-Powered Smart Reminder & Meeting Scheduler

Developed an intelligent assistant that automates reminders and meeting scheduling using Natural Language Understanding (NLU) and MongoDB-backed data storage. Built using Python, Gradio, Groq API, and MongoDB, the system interprets natural language to automate tasks such as creating reminders, listing reminders, deleting reminders, scheduling meetings, updating meeting details, and retrieving meeting lists. Integrated a smooth conversational interface using the Groq Llama model to generate structured JSON responses, enabling efficient task automation and enhanced productivity.

Certifications

- Fundamentals of Generative AI – GUVI (SAWIT.AI Learnathon), Sep 21, 2025
- Full Stack Development Bootcamp – I&T Labs
- Cyber Security and Ethical Hacking – Rinex & E-Cell IIT Bhubaneswar
- Programming for Everybody (University of Michigan – Coursera), Certificate ID: 9MFEJMAZ9EW6

Extracurricular Activities

- Tech Club Member, KG Reddy College of Engineering and Technology
- Participated in workshops and coding challenges related to Python and web development

Additional Information

- Passionate about AI applications in education and real-world software development.
- Open to learning, collaboration, hackathons, internships, and technical events.