

Pramod Kumar

Aspiring Software Engineer

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SUMMARY

Aspiring Software Engineer with hands-on experience in building full-stack MERN applications and applying AI/ML techniques to real-world problems. Developed scalable web systems with secure authentication and optimized APIs, along with computer vision solutions using TensorFlow and OpenCV. Strong foundation in Python, data structures, and writing efficient, production-ready code.

EDUCATION

Bachelor of Technology in Computer Science and Engineering
Swarna Bharathi Institute of Science and Technology, Khammam

June 2021 – Sept 2024
CGPA: 6.57

TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript (ES6)
- **Frontend:** React.js, HTML5, CSS3, Bootstrap
- **Backend:** Node.js, Express.js, REST APIs, JWT Authentication
- **Databases:** MongoDB (Atlas), MySQL
- **Cloud & Deployment:** AWS (EC2, S3 basics), Vercel, Netlify, Render
- **AI/ML:** TensorFlow, OpenCV, Scikit-learn, NumPy, Pandas (Computer Vision)
- **Tools:** Git, GitHub, Postman, VS Code, MongoDB Compass
- **Operating Systems:** Windows, Linux (Ubuntu)
- **Core Concepts:** Data Structures & Algorithms, API Design, Clean Code

PROJECTS

Job Portal (INSIDER JOBS): [GitHub](#) | [Live Website](#)

- Built a full-stack Job Portal application using the MERN stack, enabling job seekers and recruiters to manage profiles, job listings, and applications with role-based access control.
- Designed and implemented RESTful APIs using Node.js, Express, and MongoDB Atlas for efficient handling of user data and job workflows.
- Integrated secure JWT-based authentication and authorization to protect user sessions and ensure controlled access.
- Developed a responsive frontend using React and Bootstrap, improving user navigation and reducing page load time by ~25%.
- Deployed the application on Vercel, ensuring stable performance and seamless user experience.

Image Based Plant Disease Detection System: [GitHub](#)

- Developed an image classification system using TensorFlow and OpenCV to detect plant diseases from leaf images.
- Trained the model on image datasets to identify disease patterns and improve prediction accuracy.
- Applied preprocessing techniques such as resizing, normalization, and augmentation to enhance model performance.
- Built a simple interface to demonstrate real-time predictions for agricultural use cases.
- Showcased practical application of computer vision in early disease detection and crop monitoring.

Robust Lane Detection System: [GitHub](#)

- Developed a lane detection system using OpenCV for real-time road lane identification in driving scenarios.
- Implemented image processing techniques including edge detection, Hough Transform, and region-of-interest masking.
- Optimized the detection pipeline to improve lane identification under varying lighting and road conditions.
- Demonstrated real-time video frame processing for continuous lane tracking.
- Applied computer vision concepts to simulate a basic autonomous driving use case.

CERTIFICATIONS

- Python Essentials — Cisco
- AWS Academy Graduate — Amazon Web Services (AWS)
- Machine Learning with Python — Zebo.ai
- Introduction to Artificial Intelligence — Infosys Springboard
- Introduction to Machine Learning — Infosys Springboard
- Web Development — Topper World