Pramod Kumar

College Graduate | Full Stack Web Developer
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Summary

Developed scalable web applications with expertise in Python, JavaScript, and database management. Designed an e-commerce platform that improved checkout speed by 30%, optimizing front-end performance and secure authentication. Focused on troubleshooting, AI-driven solutions, and enhancing system efficiency.

Technical Skills

- **Programming Languages:** Python, JavaScript (ES6)
- **Libraries & Frameworks:** NumPy, Pandas, TensorFlow, OpenCV, Scikit-learn, PyTorch
- **Web Development:** HTML5, CSS3, Bootstrap
- **Database Management:** MongoDB, MySQL
- **Version Control**: Git, GitHub
- **Operating Systems:** Windows 10, Linux (Ubuntu)
- **Tools & Platforms:** Microsoft Word, Microsoft Excel, Jupyter Notebook

Internship

Topper World — August 2024 – September 2024
Web Developer Intern
Project Name: Flipkart Clone

- Engineered a dynamic e-commerce web application modeled after Flipkart, streamlining product catalog management, cart functionality, and secure authentication.
- Developed a real-time shopping cart system, reducing checkout time by 30% through instant cart updates and seamless order processing.
- Enhanced search and filtering algorithms to improve product discovery, refine navigation, and boost overall user experience.
- Optimized front-end performance by restructuring the DOM and implementing advanced CSS techniques, increasing site responsiveness by 20% across all devices.
- Strengthened user authentication workflows by implementing secure login and sign-up mechanisms, ensuring data protection and enhancing user retention.

Academic Projects

Robust Lane Detection from Continuous Driving Scenes Using Deep Neural Networks

- Established a real-time lane detection system with accuracy, leveraging deep neural networks to analyze raw video data from diverse driving scenarios.
- Collected and annotated video data from many driving conditions, achieving 20% improvement in model robustness and accuracy across varied environments.
- Improved AI models with labelled datasets, resulting enhancement in lane line isolation and stability compared to baseline methods.
- Applied image processing techniques to detect lane lines, reducing detection errors by 30% in high-challenge scenarios.
- Integrated refined AI models into a live video feed system, enhancing real-world performance and feedback adaptation, resulting increased system reliability.

Education

- Bachelor of Technology in Computer Science and Engineering — June 2021 – September 2024
  Swarna Bharathi Institute of Science and Technology, Khammam
- Diploma in Mining Engineering — June 2017 – August 2020
  Vijaya Engineering College

Certifications

- Certified in Web development – Topper World
- Certified in Python Essentials – Cisco
- Completed Front End Development - HTML – Great Learning
- Finished CSS Tutorial – Great Learning
- Accomplished Introduction to JavaScript – Great Learning