Vinayak Pandey

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Education

VIT Bhopal University, B.Tech in Computer Science   Nov 2022 - current
- GPA: 8.5/10 (Tentative

Projects

MLOps Pipeline with ZenML and MLflow

and deployed a scalable MLOps pipeline on a local server, integrating ZenML for workflow orchestration.

Automated data preprocessing, model training, evaluation, and versioning, reducing manual effort by 40%.
- Utilized MLflow for model tracking and experiment logging, improving reproducibility and debugging efficiency by 30%.
- Designed a modular architecture, facilitating rapid cloud migration with minimal reconfiguration.

Expense Tracker | React and Spring Boot
- Built a full-stack CRUD application using React (frontend) and Spring Boot (backend), ensuring seamless UI/UX and efficient data management.
- Developed and optimized RESTful APIs with Spring Boot, improving backend performance and scalability.
- Integrated React hooks, state management, and responsive design to enhance frontend usability and maintainability.

Technocats Society website | React and Vercel
- Led the development and deployment of a React-based frontend application on Vercel, ensuring high availability and performance.
- Configured and linked an external domain via DNS, enhancing accessibility and brand presence.
- Visit the website

Compaint registration and resolution system | MERN Stack
- Developed a Hostel Management System in a 12-hour hackathon organized by VIT Bhopal, focusing on backend efficiency using MongoDB, Express, and Node.js
- Built a complaint tracking system to digitize the existing manual process, improving accessibility and organization.
- Ensured a fully functional backend with optimized APIs, though frontend integration required further refinement.

Achievements

Open-Source Contributor – PyTorch
- Improved code efficiency by **performing dead code elimination**, reducing technical debt and optimizing performance.
- Collaborated with the open-source community, adhering to best practices in **code optimization, linting, and PR reviews**.

Courses and Certifications

Bits and bytes of computer networking [verify]: Learned network protocols, data transmission, and security, essential for secure systems.

NPTEL cloud computing[verify]: Gained expertise in cloud infrastructure, deployment models, and services, enabling scalable cloud solutions.