Yash Pasalkar

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WORK EXPERIENCE

SonyTech

Web Developer Intern   Nov 2024 - Jan 2025

- Developed a responsive web application using React.js and Tailwind CSS, improving user engagement.
- Implement a RESTful API using Node.js and Express, ensuring seamless data flow between the frontend and backend.
- Optimized database queries in MongoDB, reducing query response time by 20%.
- Participated in code reviews and followed Agile Methodologies, improving code quality and development efficiency.

EDUCATION

Visvesvaraya Technological University

Master of Computer Applications (MCA) – 71%   Nov 2023 - Aug 2025

JSS Shri Manjunathesware Institute of UG & PG

Bachelor of Computer Applications (BCA) – 70%   Aug 2020 - Aug 2023

PROJECTS

Bank transaction data analysis fraud detection   Jan 2025 - Feb 2025

- Developed a **Fraud Detection System** for banking transactions using **Python** and **Machine Learning.**
- Utilized **Random Forest** for fraud detection, analyzing transaction data to identify fraudulent activities.
- Integrated **SQLite** for secure data storage, handling user credentials, and transaction history.
- Enhanced system efficiency by detecting anomalies in transaction patterns and improving fraud detection accuracy.

Inventory Management Web Application   Jun 2023 - July 2023

- Developed an **Inventory Management Web Application** using the **MERN stack** (MongoDB, Express.js, React, Node.js).
- Implemented **user authentication** and **role-based access control** for secure login and access management.
- Enabled **real-time inventory tracking**, allowing users to add, update, and delete products efficiently.
- Integrated features for **product categorization**, **stock management**, and **price tracking**.

AI Educational Tutor with Voice Command   Jun 2025 - Aug 2025

- Developed an AI-Powered educational tutor enabling voice-based interaction for an engaging learning experience.
- Implemented natural language processing (NLP) to interpret student queries and deliver accurate responses.
- Utilized Python, NLP frameworks, Dialogflow/OpenAI API, and machine learning models for system development.
- Developed a progress tracking system to monitor learner performance and recommend specific exercises or revisions.

SKILLS

- Languages: C, C++, Java, Python, JavaScript, TypeScript
- Framework: Spring (Spring Boot, Spring MVC, Spring Security), Hibernate, JPA, ReactJS, NodeJS, Django
- Databases: MySQL, PostgreSQL, MongoDB.
- Cloud: AWS (EC2, S3, CloudFront)
- API Development: RESTful APIs, JSON, XML
- Version Control: Git, GitHub