MANOJ KUMAR PYAPLI

BACHELOR'S IN COMPUTER SCIENCE ENGINEERING

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PROFILE SUMMARY

Aspiring Software Developer with internship experience in backend development using FastAPI and PostgreSQL. Familiar with REST APIs and backend fundamentals through practical learning. Currently learning and exploring Generative AI, Large Language Models, and RAG concepts, with a strong interest in improving problem-solving and software development skills.

TECHNICAL SKILL

Java	Python	HTML	CSS
JavaScript	FastApi	Generative AI	RAG
SQL			

INTERSHIP

IFB Industries Ltd - Technical Intern - (Sep - Dec 2024)

- Gained practical experience in web application development using HTML, CSS, JavaScript, Node.js, and PostgreSQL.
- Worked on backend development and handling BOM-related data as part of project implementation.
- Assisted in building and improving application features using REST-based workflows.
- Learned and practiced backend development concepts, database handling, and real-world development practices during the internship.

EDUCATION

BE in Computer Science 2021-2025

Jyothy Institute Of Technology

Graduated with 8.41 CGPA

PROJECTS

AI-Powered Task Management System Developed a task management system using FastAPI and PostgreSQL to assist Agile teams in organizing and managing project tasks. Integrated AI-based task generation and Jira REST APIs to streamline task creation and synchronization. Implemented NLP-based developer recommendation and backend workflows to reduce manual effort in task planning.

Vector-Based Interview Knowledge Assistant Developed an interview preparation assistant using FastAPI (Python) with HTML, CSS, and JavaScript, where I got a chance to learn vector embeddings and semantic search using Sentence Transformers and cosine similarity to retrieve stored answers without generative AI. Learned retrieval-based concepts including intent and negation filtering, and implemented category-wise notes viewing using JSON storage and a pickle-based vector store.

Student Management System Developed using HTML, CSS, and JavaScript for the frontend and Java Spring Boot for the backend, implementing CRUD operations with REST APIs and an interactive dashboard for managing student records.