

Begari Roopak Sai

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Skills

Languages: Java, Python, JavaScript

Frontend: React, HTML, CSS

Backend: Node.js, Express.js, REST APIs

Databases: PostgreSQL, MongoDB, MySQL

Tools: Docker, Git, Postman

ML / Data: Pandas, NumPy, Scikit-learn

Projects

RAG Chat Application (PDF Question Answering System)

Node.js, Express, React (Vite), Google Gemini API, ChromaDB, Docker

- Built a Dockerized RAG system for querying PDFs using semantic search and LLM-based answer generation.
 - Implemented PDF ingestion, vector embedding, retrieval, and context-grounded responses using Google Gemini and ChromaDB.
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Job Tracker API

Node.js, Express, PostgreSQL, Sequelize, Docker

- Designed and implemented a **RESTful backend API** for tracking job applications.
 - Implemented **JWT-based authentication**, protected routes, and user-scoped CRUD operations.
 - Modeled relational data using **Sequelize ORM** with explicit database migrations.
 - Containerized the API and PostgreSQL database using **Docker Compose** following production-style practices.
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Movie Recommendation System

Python, Pandas, Scikit-learn

- Built a content-based recommendation system using similarity metrics on the MovieLens dataset.
 - Engineered feature vectors from genres and user ratings to generate personalized recommendations.
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Education

Lovely Professional University, Punjab

2022 – Present

B. Tech in Computer Science and Engineering

| CGPA: 8.1

Certifications

- IBM Machine Learning Professional Certificate – Coursera
 - Full Stack Open – University of Helsinki (In Progress)
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Achievements

- Solved **150+ DSA problems** on LeetCode; earned 100-Day Streak badge
- Participated in a **12-hour CTF** covering cybersecurity and CS challenges
- Open-source contributor during **Hacktoberfest (GDSC LPU)**