

Pream Pareesh

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Summary

AI-focused Computer Science student with strong foundations in Data Structures, backend development, and intelligent systems. Experienced in building AI-powered automation pipelines, computer vision applications, and scalable API-driven platforms. Skilled in integrating Large Language Models, Retrieval Augmented Generation (RAG), and automation workflows to develop practical AI solutions.

Technical Skills

Languages: Java, Python, C, JavaScript

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

AI Technologies: LLM Integration, Retrieval Augmented Generation (RAG), LangChain, Vector Databases (FAISS), Prompt Engineering

Databases: SQL, Firebase

Tools: Git, GitHub, Docker, Postman, VS Code, IntelliJ IDEA, Vercel

Core Concepts: Data Structures and Algorithms, Object-Oriented Programming, DBMS, System Design

Technical Projects

AI News Automation System

Node.js, APIs, Vercel

- Designed and implemented an AI-driven automation pipeline that processes 50+ AI news articles daily using external APIs.
- Built automated summarization workflows and scheduled email distribution reducing manual effort by 70%.
- Developed scalable backend services using Node.js and deployed serverless infrastructure on Vercel.

AI Assistance System for Blind Users

Python, Computer Vision

- Developed an AI-based assistive application providing real-time voice guidance for visually impaired users.
- Implemented object detection and navigation assistance improving obstacle detection accuracy by 25%.
- Designed SOS alert module sending automated WhatsApp notifications with GPS location to emergency contacts.

Voice Driven Coding Assistant

Python, Speech Recognition

- Built a voice-driven coding assistant that converts spoken programming logic into executable code.
- Implemented speech recognition and NLP achieving 85% command interpretation accuracy.
- Integrated automated code explanation functionality to help beginner programmers understand generated logic.

AI Migration Assistant

LLM, MCP, RAG

- Developed an intelligent migration assistant for upgrading legacy XML configurations using LLM reasoning.
- Implemented MCP server architecture enabling AI agents to interact with external tools and APIs.
- Used Retrieval Augmented Generation to fetch documentation and configuration rules dynamically.
- Built automated workflows for analyzing and transforming configuration files.

Experience

AI Systems Developer (Independent Projects)

2024 – Present

- Designed and developed multiple AI-driven systems integrating LLM workflows and backend services.
- Built automation pipelines connecting APIs, databases, and machine learning models.
- Deployed scalable backend services using Docker and cloud platforms.
- Implemented intelligent agents capable of interacting with external tools through MCP servers.

Open Source & GitHub Work

- Published AI automation tools and backend systems on GitHub with clear architecture documentation.
- Built reusable modules for AI workflow orchestration and API integrations.
- Maintained version control and collaborative development using Git and GitHub.

Education

Narayana Engineering College, Nellore

Aug 2024 – May 2028

B.Tech in Computer Science and Engineering

SGPA: **8.6**

Relevant Coursework

Data Structures, Algorithms, Object-Oriented Programming, Database Management Systems, Operating Systems, Computer Networks

Achievements

- 1st Rank – GDG Hackathon, Narayana Engineering College, Nellore
- 1st Rank – TECHNOGYAN Hackathon, Narayana Engineering College, Gudur
- Built multiple AI automation projects integrating LLM workflows and backend systems

Certifications

- Artificial Intelligence Fundamentals
- Data Structures and Algorithms
- Backend Development with Node.js
- AI Workflow Automation

Technical Interests

Artificial Intelligence, Large Language Models, Backend System Design, AI Automation, Intelligent Agents