

PADMA OM SUDHAMSH

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Summary

AI-focused Computer Science undergraduate with hands-on experience building conversational AI systems using LLMs, RAG pipelines, and prompt engineering. Skilled in developing full-stack AI applications with React and FastAPI, focusing on scalable and user-centric solutions.

Projects

RAG Chatbot Application | *React, Langchain, Gemini, Supabase, FastAPI*

[GitHub](#) | 2026

- Developed a conversational AI chatbot using LLMs and RAG pipeline for document-based querying.
- Designed multi-turn conversation flow with context-aware responses using embeddings.
- Integrated FastAPI backend with LLM APIs for real-time response generation.
- Implemented semantic retrieval using vector embeddings to improve answer relevance.

AskData - AI Data Analysis Platform | *React, FastAPI, Groq LLM, SQLite*

[GitHub](#) | [Live](#) | 2026

- Built an AI-powered data analysis system using LLMs to convert natural language queries into SQL.
- Integrated Groq LLM for real-time query generation and execution.
- Designed backend pipelines for processing datasets and returning structured insights.
- Developed responsive UI for seamless interaction with AI-driven analytics.

Prompt Generator | *React, Tailwind CSS, shadcn/ui, FastAPI, Gemini API*

[GitHub](#) | [Live](#) | 2025

- Built an AI-powered web tool generating tailored prompts for analytics, CSV datasets, and images.
- Developed reusable React components using Tailwind CSS and shadcn/ui.
- Implemented dynamic prompt scoring algorithm (0–100) based on structure and clarity.
- Implemented modular and reusable React components following modern frontend architecture.

Skills

GenAI / LLMs: Prompt Engineering, LangChain, RAG, Conversational AI

ML & NLP: NLP, Intent Detection, Sentiment Analysis, Deep Learning (basics)

Programming: Python, JavaScript (ES6+), TypeScript, SQL, Java

AI Tools: Hugging Face, Gemini API, Groq API

Frontend: React.js, Next.js (learning), HTML, CSS, Tailwind CSS

Backend: FastAPI, REST APIs, API Integration

Data: Pandas, NumPy, Matplotlib, Supabase

Tools: Git, GitHub, Debugging

Leadership & Technical Experience

Creative Lead - Design & Technology

NextGen Nexus

Hyderabad, India

Feb 2025 – Present

- Led development and design of AI-powered applications, aligning UI with AI-driven workflows.
- Collaborated with teams to build scalable and user-centric AI solutions.

Student Volunteer

Microsoft AI Innovators Hub

Hyderabad, India

June 2025 – Present

- Leading workshops on **Azure Machine Learning** and Generative AI deployment strategies
- Promoted awareness of modern AI development tools and best practices.

Design & Strategy (E-Cell CMRCET)

Graphic Designer

Nov 2025 – Present

Hyderabad, India

- Creating visual identities and promotional materials for entrepreneurship events and startup initiatives

Education

B.Tech - Computer Science and Engineering (AI & ML)

CMR College of Engineering & Technology; GPA: 8.36/10.0

Hyderabad, India

Sept 2023 – Present

Intermediate (PCM)

Delhi Jr. College & Defence Academy; Percentage: 86.6

Karimnagar, India

Jan 2021 – 2023

Certifications

Certifications: Cloud Essentials (IBM), Cisco Networking Academy, Python for Data Science, Introduction to Machine Learning (Microsoft), Deep Learning with TensorFlow, Salesforce Agentforce Specialist.

Programs: Swecha Summer of AI (2024) – 3-month intensive on Linux and Machine Learning

Achievements: Runner-Up, **Convergence '25 Hackathon** (VNRVJIET)