

PRABHAS NAIDU MAHANTI

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PROFILE SUMMARY

- Results-driven Software Engineer with strong communication skills and a passion for building scalable, user-focused applications that solve real-world problems and deliver business value.
- Solid foundation in OOPs, DSA, AI/ML, gained through real-time projects, agile collaboration, and solution-oriented engineering using modern tech stacks.

Education

Amrita School of Engineering

Sep 2021 – April 2025

Bachelor of Technology - Computer Science and Engineering (Artificial Intelligence) C.GPA - 8.13

Tamil Nadu

Sri Chaitanya Junior college

April 2019 – June 2021

Board of Intermediate Education (M.P.C)(Percentage - 87%)

Vijayawada, Andhra Pradesh

Technical Skills

Languages: Java, Python, SQL

Technologies: AWS (Bedrock), LangChain, Git, Streamlit

Web/Tools: GitHub, VS Code, Eclipse

Concepts: Object-Oriented Programming, Data Structures, Machine Learning, LLMs, RAG

Experience

GEN AI - Intern at Value Health Solutions | Generative AI, LLMs, AWS, RAG

Jan 2025 – Present

- Built an AI call center assistant using Twilio, Gemini, and LangChain RAG for real-time policy query resolution.
- Integrated LangChain SQL agents with PostgreSQL for intelligent appointment scheduling and booking.
- Won an intra-company hackathon by building an Automatic Resume Generator using a skill matrix.
- Built a customer insights agent with Agentic AI to query orders, discounts from PostgreSQL, and email summaries.

Projects

Q&A Chatbot Leveraging Mixtral- 8x7B to Access Government Schemes | Python, JS July 2024 – November 2024

- Processed 200+ PDF documents of govt schemes, chunked data into 3,000+ embeddings using Mistral model.
- Trained Mixtral-8x7B with 50+ domain-specific prompts, improving question-answer accuracy by 28% based on internal evaluations.
- Deployed chatbot with an average latency of 3 seconds and tested across 10+ government-related topics.

MedGPT: Chatbot for Disease Prediction and Doctor Recommendation | Python January 2024 – April 2024

- Built a healthcare chatbot using Streamlit and Google Generative AI, used by 100+ testers for disease predictions with 85%+ accuracy.
- Integrated LangChain with Chroma and Tavily Search to improve response accuracy by 30% during medical info retrieval.
- Designed a multi-agent system with tailored responses for symptom-based and general medical queries.

Publication

Technology and Engineering Management Society Conference: Asia-Pacific

May 2024

Title: *HandWritten Digit Recognition* doi: 10.1109/TEMSCON-ASPAC59527.2023.10531394.

Bangalore, Karnataka

- Designed and implemented a CNN model with multiple convolutional and dense layers, using ReLU activations and the Adam optimizer, for classifying handwritten digits from grayscale images.

Certifications

Introduction to Java, Learn Quest (Coursera)

August 2023

Programming with JavaScript, Meta(Coursera)

June 2024