

# KRISHNA BHAGAVAN KARRI

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## Career Objective

Aspiring Full Stack Developer (MERN) with hands-on experience in Generative AI, seeking to build scalable, real-world applications and intelligent AI-driven solutions.

## Technical Skills

**Frontend** — HTML5, CSS3, JavaScript (ES6+), React.js, Tailwind CSS

**Backend** — Node.js & Express.js for RESTful APIs, FastAPI for building scalable microservices

**Databases** — MySQL, MongoDB, PostgreSQL

**Generative AI** — Python, LangChain, LangGraph, Pydantic, LangSmith, Agentic AI

**DevOps & Tools** — Git, Docker, Linux, Supabase

## Projects

- **Intelligent Query & Reasoning System (IQRS)** [\[Link\]](#)

Developed an AI-powered **Python backend service** using **LangGraph**, **RAG**, and **LLMs** to answer complex queries from **multi-format documents (PDF, DOCX, PPTX, images via OCR)**. Implemented **autonomous agent workflows** for API and web interactions with adaptive reasoning, and built a **scalable FastAPI backend** with **FAISS-based vector caching** and **pluggable LLM support (OpenAI, Gemini, NVIDIA, Hugging Face)**.

- **Multi-Modal AI Agent with Voice Assistance** [\[Link\]](#)

Developed an **AI-powered voice assistant** integrating **Groq**, **Gemini**, and **Faster Whisper** to process voice commands, **images (via screenshots and webcam)**, and **clipboard data**. Implemented **real-time speech-to-text**, **context-aware responses**, and **vision analysis** for enhanced user interactions. Designed a **dynamic workflow** using **LangGraph** with **memory management** for **coherent conversations**, enabling **multi-modal understanding** and intelligent function calls.

- **Mobster Merch – An Ecommerce Site** [\[Link\]](#)

Built a **production-ready, scalable e-commerce application** from the ground up with **React + TypeScript**, **Express.js**, and **MySQL**, featuring a **responsive storefront**, secure **JWT-based authentication**, **PhonePe payment integration**, and a comprehensive **admin dashboard for inventory, orders, and analytics**. Implemented **Redis caching**, **Cloudinary image storage**, and **Nginx-based deployment** on Ubuntu for high performance and reliability.

**Tech Stack:** React 18, TypeScript, Tailwind CSS, Express.js, Node.js, MySQL, Redis, Cloudinary, PM2, Nginx

## Work Experience

- **In-House Internship – Aditya University** [\[Link\]](#)

Mar. 2025 – Jun. 2025

Developed a **rule-based** web application named “**Automated Reporting system**” to automate **College Report Generation** processes, streamlining **administrative workflows** and reducing manual effort. Collaborated with faculty to understand **reporting requirements** and implemented highly secured **Authentication system**.

## Achievements

- Selected for Finals in Bajaj Hackrx 6.0 - A National level Indian Hackathon

## Education

- **B. TECH, AIML | CGPA: 7.83**

2022 – Present

Aditya Engineering College (AEC), Surampalem

- **Class XII (INTERMEDIATE), 91%**

2020 – 2022

Vaishnavi Junior College, Tuni

- **Class X (SSC), 95.83%**

2019 – 2020

Loyola E.M School, Tuni