

KETHAVATH KARTHEEK

Amberpet, Hyderabad, Telangana-500073

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PROFILE

<ul style="list-style-type: none">Motivated computer science student passionate about full-stack development, applied AI, and building scalable, data-driven products. Strong understanding of LLMs and Retrieval-Augmented Generation (RAG) systems with hands-on experience in cloud deployment and backend engineering. Competitive programmer skilled in Python, Java, and JavaScript with a solid foundation in CS fundamentals.		
<ul style="list-style-type: none">Keshav Memorial Institute of Technology B.Tech in Computer Science and Engineering (AI-ML) , CGPA : 7.45		2022-2026 Hyderabad, Telangana
<ul style="list-style-type: none">Narayana Junior College Intermediate (Physics,Chemistry,Maths), Percentage: 92.3		2020-2022 Hyderabad, Telangana
<ul style="list-style-type: none">Kendriya Vidyalaya Sangathan(CBSE) Secondary Education, Percentage: 88.4		2020 Miryalaguda, Telangana

SKILLS

Languages: Python, Java, JavaScript, C++
Frameworks: Node.js, Flask, Express.js
Tools & Concepts: REST APIs, WebSockets, Git, Zustand, Postman
ML/AI: LangChain, Gemini API, RAG systems, Prompt Engineering

PROJECTS

Smart PDF Chat – (LangChain FAISS Python MongoDB Streamlit)	Source Code	Demo
<ul style="list-style-type: none">Built a Retrieval-Augmented Generation (RAG) chatbot that enables users to query uploaded PDFs using natural language.Integrated LangChain with FAISS vector store and Gemini 1.5 Flash for real-time semantic search and context-based answer generation.Parsed and split large PDFs into text chunks, embedded them using Google Generative AI embeddings, and stored vectors locally for low-latency retrieval.Designed a dynamic Streamlit UI with session memory, chat interface, and conversation history download feature.Deployed on cloud using Streamlit, optimized for low-latency inference, and designed for real-time, multi-file interaction		

aiXinterview – Voice AI Interview Simulator (MERN | Python | Flask | Vapi) [Source Code](#) [Demo](#)

- Created a full-stack AI interview platform simulating real-time conversations using voice input/output.
- Developed Python-based backend services for question generation, answer scoring, and feedback delivery utilizing the Gemini API.
- Managed users, interviews, and dynamic feedback with question-level analytics using MongoDB.
- Designed RESTful APIs to support real-time, multi-step user flows from interview initiation to personalized feedback.

EAMCET College Predictor . (Python | Flask | Pandas | HTML/CSS) [Source Code](#) [Demo](#)

- Developed a Python-Flask web application to predict suitable colleges based on user rank and category using TS EAMCET data.
- Parsed large CSV datasets with Pandas for efficient college prediction logic and dynamic filtering.
- Built a Flask backend with server-rendered templates, deployed on a lightweight stack.
- Designed a clean, intuitive UI ensuring smooth user interaction and data-driven responses.

TECHNICAL ACTIVITIES

- **Developed a Video Summarizer Web App** at **CBIT Hacktoberfest Hackathon 2023** , organized by CBIT Open Source Community; generated concise summaries from YouTube videos using transcript analysis.
- **Achieved Top 26% on LeetCode** by consistently solving algorithmic and data structure challenges, demonstrating strong problem-solving skills.
- **Finalist at HASCKAVVY Hackathon** hosted by MGIT College; participated in a national-level competition, building and pitching innovative tech solutions under time constraints