

Mark Lopes (Third Year, Computer Engineering)

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Career objectives

Aspiring computer engineer with a strong foundation in web development and a passion for creating user-centric applications. Seeking to leverage my skills in modern web technologies, programming, and problem-solving to contribute to innovative projects and the growth of a forward-thinking organisation.

Skills

Programming Languages: Python, C, Java(Basic)

Technologies: NumPy, Pandas, scikit-learn, Flask, PostgreSQL

Tools: Pycharm, Jupyter Notebook, Github, Git

Education

Fr. Conceicao Rodrigues College of Engineering, Bandra (2022-present)

BE, Computer Engineering • CGPA: 8.64

Thomas Baptista Junior College, Vasai(W) (2020- 2022)

HSC • Passing Percentage: 71.5%

Projects

Legal-Forge

- Developed a legal assistant web application using Flask for the backend and Next.js for the frontend, integrating Google Generative AI for advanced legal document processing.
- Implemented document upload functionality to extract and analyze text from PDFs using pdfplumber, enabling users to ask questions and receive AI-powered answers based on document content.
- Built AI-powered endpoints for contract review, legal question answering, and contract creation, utilizing Langchain to structure prompts and enhance responses with Gemini.

Travel-Planner

- Developed using Python and Flask for backend and html/css for frontend
- Allows the user to get the top rating of restaurants/Travel-places based on the destination they enter
- After preprocessing the Data from the csv dataset, hybrid filtering algorithms are used to get the top ratings and reviews based on age/travel-places/reviews.

Gemini-assistant

- Developed a terminal-based voice assistant that interacts with users through both text and voice using Google Gemini and Text-to-Speech (gTTS) technologies.
- Implemented voice input functionality using the speech_recognition library, allowing users to interact hands-free by pressing and holding the spacebar to record their voice.
- Integrated Google Gemini AI to generate text-based responses based on user queries, with output converted to speech for a natural, interactive experience.

Achievements

- **Fifth Place Competitive Coding, AlgoHolic 1.0** (2023)
- **Fourth Place FE 26' Online Chess Tournament** (2023)

Training

- **Technical Head at CSI council** (2024)

Hobbies

- Chess
- Swimming