**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](https://github.com/MarkLopes11/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**](https://github.com/MarkLopes11/TravelPlannerProject)

* 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](https://github.com/MarkLopes11/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**