

Jeffin Joffy P

✉ jeffinjoffyp123@gmail.com ☎ 8281596331 🌐 in/jeffinjoffy 📁 apetun.github.io/portfolio/

PROJECTS

Query : A Gemini powered RAG application

github.com/Apetun/IITGN-Hackathon • June 2024 - July 2024

- Developed a pipeline for parsing tabular data from two extensive PDF files (300 pages and 500 pages) containing Electoral Bonds information of political parties and companies.
- Utilized Tableau to convert tabular data into CSV and database files, facilitating easy retrieval of information using SQL queries.
- Integrated the Gemini API with in-context learning and Retrieval-Augmented Generation (RAG) from a Vector Database to generate SQL queries from natural language, simplifying information processing.
- Skills Gained : Data Parsing and ETL, Streamlit, Vector Database, Tableau, SQLite3, In-Context Learning, RAG Techniques.

Personalized Meal Planner

github.com/Apetun/Personalized-Meal-Planner • January 2024 - February 2024

- Developed a personalized meal planner with a database in Oracle DB, featuring database connectivity and a user interface designed using Python.
- Allows users to create profiles with allergy information and manage in-house inventory of ingredients and recipes.
- Generates meal plans based on allergies and recipe list and shopping lists based on recipes and household inventory.
- Skills Gained : Database Design , SQL , OracleDB , Tkinter Python UI frameworks.

Java Facial and Speech Detection

github.com/Apetun/Java-Speech-And-Facial-Recognition • October 2022 - November 2022

- Developed a facial detection project in Java using OpenCV, training a model to recognize my face in real-time video capture.
- Created a speech recognition project using Sphinx 4 in Java, developing a program capable of accurately recognizing voice commands.
- Skills Gained : Real time video Capture in Java, Formation of Training Data from Video Streams, OpenCV and SpinHx4 in Java.

EXPERIENCE

Association for Computing Machinery

Core Committee Member

- Developed and coordinated a competitive coding event, created challenging problems, developed comprehensive test cases, and assisted in planning, logistics, and coordination for smooth execution.
- Represented ACM in the CTF Scavenger Hunt event, conducted in partnership with the official cybersecurity student project of the college, and assisted in creating event questions.
- Designed logos and graphics for ACM events and initiatives, including social media platforms like Instagram.

Cryptonite

Team Member

- Ranked #4 among academic cybersecurity teams in the country and #4 among all teams in India as per CTFtime.
- Actively participated in Capture The Flag (CTF) competitions during Cryptonite's task phase, focusing on forensics and binary exploitations to expand skill set and knowledge in cybersecurity.
- Authored technical write-ups on topics such as memory forensics and malware analysis, improved Linux skills and familiarity with tools like Autopsy and Volatility, thus enhancing understanding of cybersecurity methodologies and practical skills.
- Participated in research involving malware analysis and blockchain.

EDUCATION

BS Degree in Data Science and Applications

Indian Institute of Technology Madras • Online • 2027 • 8.8

B.Tech Computer Science and Engineering (Artificial Intelligence & Machine Learning)

Manipal Institute of Technology • Manipal, KA • 2026 • 8.7

- Secured a rank of 903 in MET 2022.
- Was awarded an AICTE scholarship covering 60% of my expenses.

High School Diploma

Minor in Computer Science • Hari Sri Vidya Nidhi School • Thrissur, KL • 2021 • 98.75%

- I achieved the highest rank in science and overall performance within my school.
- I co-organized events like the HSMUN with a team of five individuals, providing online and technical support throughout the COVID-19 pandemic.
- I attained the All Kerala Rank of 203 in KEAM 2022.

SKILLS

Java, Python , C, Next.js, OracleDB, UI, SQL/PLSql , TensorFlow, Linux, C , OpenCV , Machine Learning, LLMs.