CHETHAN V

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chethan-portfolio | blog/chethanv

EDUCATION

Bachelor of Engineering in computer science

PES University , Banglore
Jan 2021- Current
- Specialization in Machine learning
- GPA - 8.07

Intermediate and matriculation

Presidency School and college , Sira
Nov 2019 - Dec 2021
- 10th GPA - 91.4% (CBSE)
- 12th GPA - 98%

SKILLS

Languages : C , C++(OOPS) , Python
Web Development : HTML , CSS , Java Script , Node JS , Express JS , EJS
Backend : SQL , Mongo DB
Technologies : Docker , GitHub, Bootstrap , Vercel
Relevant Course Works : Software Engineering, Database Management , Operating System , Cloud Computing ,
Data structure andalgorithm, Problem solving with C and C++ , Web Technologies , Artificial Intelligence,

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PROJECTS

Travel Mate **Code** | **Demo** | **Docker hub**

- **Tech Stack:** JavaScript, Node.js, Express, EJS, Gemini API
- **Comprehensive Travel Planner:** Provides place recommendations, reviews, and travel planning tools, integrating various features for an all-in-one travel experience.
- **API Caching for Efficiency:** Utilizes Gemini API with a caching methodology to optimize API calls and reduce response times by up to 100% for repeated requests.
- **Dockerized for Cross-Platform Compatibility**: The project is containerized using Docker, ensuring smooth and consistent operation across different systems.
- **Enhanced Reviews & Custom Travel Planning:** Offers detailed reviews for places, seamless custom travel planning, and integrates Google Maps API for precise location details.

Fit Focus **Code**

- **Tech Stack**: Node.js, Express.js, EJS, MongoDB
- **Full-Stack Fitness Application:** Developed with user authentication, ensuring secure and personalized experiences, including a calorie calculator for fitness tracking.
- **Fit Bot with Prompt Engineering:** Incorporates a conversational bot that generates personalized gym and diet plans based on user input, enhancing the fitness guidance experience.
- **Interactive Content:** Includes an article section compliant with ICMR guidelines and a profile section with a gallery for tracking fitness journeys, boosting user engagement.

Toxicity Analysis in social media **Code**

- **Tech Stack:** Python, BERT, Streamlit, LSTM , RoBERTa, Transformers
- **Advanced Toxicity Detection:** Developed a BERT-based framework for chat analysis, achieving 97% accuracy in flagging inappropriate content and improving detection rates by 13% on an average when euphemisms is used.
- **Real-Time Chatroom Monitoring:** Features a chatroom with built-in toxicity analysis to flag and block users displaying toxic behavior, supporting both text and audio inputs.
- **Multi-Label Toxicity Detection**: Uses a RoBERTa model for detecting various types of toxic behavior, providing detailed and accurate classification.
- **Contextual Analysis for Reduced False Positives:** Uses integrated context analysis to ensure higher detection accuracy and minimize false positives.

CERTIFICATIONS

- A Beginner's Guide to Linux Kernel Development **LINK**
- Understanding ML Algorithm PESU-IO **LINK**
- Hacker Rank - Problem solving intermediate **LINK**
- Acmagrade training in Artificial intelligence **LINK**

ACHIEVEMENTS

- 4 times MERIT student Award (Given to top 20% scoring students)
- Top 3 teams in QCC Quiz
- Ranked among the top 10 teams in the Wolf Of Wall Street Hackathon