Harshit Chakravarti

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EDUCATION

Vellore Institute of Technology (VIT), Bhopal   Bhopal, India
B.Tech in Computer Science & Engineering (Spec. in AI & ML); CGPA: 8.32/10.0   *2023 – 2027 (Expected)*
- Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Database Management, Machine Learning, Deep Learning, Networking

PROJECTS

Multimodal Speech Emotion Recognition | *Bi-LSTM, Transformers, CNNs, RNNs*   GitHub Link
- Developed a multimodal DL framework using Bi-LSTM, CNN, and Transformer architectures to analyze emotional cues from voice and video data for virtual classrooms
- Leveraged RAVDESS and CREMA-D datasets for acoustic, semantic, and linguistic analysis to enhance student engagement and provide actionable insights

RAGBot - Multi-AI RAG Chatbot | *LangChain, MongoDB, Groq Cloud, Gemma-9B-IT*   GitHub Link
- Implemented a RAG system integrating LangChain, MongoDB vector storage, and Wikipedia API for knowledge retrieval powered by Gemma-9B-IT LLM via Groq API
- Developed multiple interfaces including command-line, web, and Streamlit applications for versatile user interaction with the AI chatbot system

VitalAI - Personalized Healthcare Assistant | *Next.js, Flask, Supabase*   GitHub Link
- Created a health monitoring platform with Google Fit integration, habit tracking, and Random Forest models for real-time disease risk prediction
- Designed intuitive dashboards and Flask APIs to visualize health trends and provide personalized recommendations for doctor visits based on diagnostic data

Kislay Naturals E-Commerce Platform | *MERN Stack, Razorpay, JWT*   Live Link
- Engineered a full-stack e-commerce solution with React frontend, Node.js/Express backend, and MongoDB for a specialty foods startup enabling online sales
- Implemented secure payment processing with Razorpay integration and JWT authentication for user management and transaction security

TECHNICAL SKILLS

Languages: Python, C++, JavaScript, SQL
Frameworks: PyTorch, TensorFlow, React, Flask, Express.js
Data Science & Visualization: Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, Tableau, Power BI
Developer Tools: Git, GitHub, AWS, Jupyter Notebook, MongoDB

CERTIFICATIONS

Python for Data Science & ML Bootcamp
Udemy

PyTorch for Deep Learning Bootcamp
Udemy

Summer School on Remote Sensing and GIS
ISRO Dehradun

ACHIEVEMENTS & LEADERSHIP

Academic Excellence
CBSE Class XII: 91% (2023), CBSE Class X: 95.6% (2021)

JEE Mains (2024 Attempt)
98th Percentile while managing undergraduate coursework

Vice House Captain
Led Chenab House (2022-23) at Delhi Public School, Dwarka