SAMRAGEE CHOPRA

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https://github.com/errorthundernova

EDUCATION

VELLORE INSTITUTE OF TECHNOLOGY   Expected Jul 2026
Bachelor of Technology
   Computer Science and Engineering (Specialization in Artificial Intelligence and Machine Learning)
   CGPA: 8.26/10

SKILLS

Java | SpringBoot | Python | Flask | Django | Numpy | Pandas | Matplotlib | Scikit-Learn | TensorFlow | PyTorch | NLP |
MySQL | MongoDB | Postman | Git

UNIVERSITY PROJECTS

DATA DRIFT MONITORING PLATFORM   Oct 2025 - Oct 2025

Technologies Used: Streamlit, Pandas, SciPy, Matplotlib

- Developed an interactive web application using Streamlit and Pandas capable of analyzing and visualizing data drift across 50+ features for datasets exceeding 1 million rows.
- Engineered an automated analysis engine to apply appropriate statistical tests (Kolmogorov-Smirnov test, Chi-Squared test), reducing manual analysis time for a given feature by over 95%.
- Created a dynamic dashboard that presents clear drift status, p-values, and comparative visualizations, enabling at-a-glance model health monitoring in under 10 seconds.

SMARTMOCK   Jul 2025 - Aug 2025

Technologies Used: React.js, Node.js, Express, MongoDB (MERN)

- Engineered a full-stack mock data generation tool using the MERN stack, reducing API setup time for front-end testing by an estimated **60%**.
- Engineered a RESTful API to generate on-demand JSON datasets from user-defined schemas, capable of serving over **50** concurrent requests.
- Developed a user-friendly React.js interface that streamlined the creation and binding of mock data, cutting manual data entry for UI component testing by up to **90%**.

ZENZONE BOT   May 2025 - Jun 2025

Technologies Used: Python, Flask, NLTK, Scikit-learn, Sumy, Joblib

- Built and deployed an AI-powered mental health chatbot integrating sentiment analysis (**85%+** accuracy), intent recognition (**~88%** accuracy), keyword detection, and text summarization for personalized support.
- Optimized summarization pipeline using LSA, condensing user inputs by up to **60%** and reducing processing time by **2x**.
- Scaled the system to handle **100+** concurrent users, ensuring reliability and empathetic interactions through an interactive Flask-based web app.

EXTRA-CURRICULAR ACTIVITIES

LINPACK CLUB   VIT Bhopal University, BPL
Co-Lead   July 2022 – May 2025
- Directed a team of **50** members to create engaging content for newsletters and social media.
- Increased member engagement by **20%** through data-driven campaigns and community-building initiatives.
- Coordinated collaborative events that enhanced technical learning and networking opportunities.

PARTICIPANT | ADOBE INDIA HACKATHON

CERTIFICATIONS

Microsoft Certified: Azure Fundamentals | Postman API Student Expert | IBM GEN-AI | IBM BLOCKCHAIN – Fundamentals | IBM BLOCKCHAIN – Developer

ADDITIONAL

Languages: Fluent in English, Hindi
Interests & Hobbies: Playing a Musical Instrument, Team-Based Strategy Gaming