

CHINDIRI CHAKRI

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EDUCATION

Vellore Institute of Technology, Bhopal

2022 – 2026

B.Tech - Computer Science and Engineering - CGPA - 8.46

Bhopal, India

PROJECTS

Twitter Sentiment Analysis 🔗 | Python, Machine Learning, NLP, Pandas.

September 2025

- Developed a sentiment analysis framework using TF-IDF on a 74,000-tweet dataset, employing feature engineering for text analysis.
- Trained and compared four classifiers(Random Forest, Logistic Regression, Naive Bayes, Decision Tree), with the Random Forest model achieving the highest accuracy of 88.51%.
- Maximized model precision for negative sentiment, where the Random Forest classifier achieved 0.96 Precision and a strong 0.88 F1-score.

Plastic Classification using Machine Learning 🔗 | Python, Pandas, NumPy, Scikit-learn.

July 2025

- Created a supervised machine learning model in Python to classify 5 key plastic types, reducing manual sorting errors by 30% in waste management processes.
- Processed over 1,000 data points through comprehensive data preprocessing and feature engineering, reducing data sparsity by 20%.
- Validated 5+ machine learning models (Logistic Regression, SVM, Random Forest, Decision Tree) and achieved an average accuracy of 92.5% in classifying plastic types.

Distress Detection 🔗 | Python, TensorFlow Lite, Librosa, Firebase, CNN

March 2025

- Implemented a background audio monitoring service using Android Studio and TensorFlow Lite for on-device inference, ensuring seamless operation without affecting device performance with 95.7% accuracy.
- Collected and processed a custom audio dataset of 5,000 samples, extracting Mel Frequency Cepstral Coefficients (MFCCs) to train and validate machine learning models.
- Engineered a multi-phase classification pipeline to filter and validate audio signals, minimizing false alarms for an effective emergency response system.

INTERNSHIP

Infosys Springboard 🔗

August 2025 – October 2025

Intern

- Spearheaded the AI Tutor project as the project lead, directing a team in the development of both front-end and back-end functionalities and ensuring all project milestones were met.
- Architected the data pipeline to process AI logic output (syllabus parsing via Python libraries), resulting in the structured storage of essential topic data for the application's core functionality which serves over 500 users.
- Built a full-stack learning platform using React.js and Node.js, engineering the user-facing interfaces and robust API infrastructure, which reduced content loading time by 40% and provided real-time progress tracking.

TECHNICAL SKILLS

Languages: Python, C++

Tools: VS Code, Git

Additional: Machine Learning, Deep Learning, Tensorflow, Pandas, NumPy, Spacy.

EXTRACURRICULAR

Bit By Bit Club 🔗

November 2023 – July 2025

Social Media Team Lead

VIT, Bhopal

- Led Social Media Team taking responsibility for planning, executing team activities, and overseeing the successful completion of all team objectives.
- Managed and executed 3 annual hackathons and coding competitions, coordinating technical resources and securing judging panels for over 450 total participants.

CERTIFICATIONS

- MERN Full Stack - Ethnus
- Artificial Intelligence Primer Certification - Infosys Springboard