

HARSH KAREKAR

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EDUCATION

Vellore Institute of Technology, Bhopal

2022-2026

B.Tech - Electronics and Communication Engineering

CGPA: 8.18

TECHNICAL SKILLS

Python, Java, Pandas, SQL, Data analysis/interpretation, Data visualization/reporting (Excel, Sheets, Tableau, Power BI, Matplotlib, Seaborn), Deep Learning Frameworks (TensorFlow/Keras, PyTorch), AI automation tools (ChatGPT, Zapier, Claude)

TECHNICAL PROJECTS

Medicine Recommendation System

04/2024 - 07/2024

- Built a Machine Learning-Based system to recommend appropriate medicines based on patient symptoms, diagnoses, and drug interactions.
- Integrated multiple healthcare datasets including patient records, drug-drug interactions, and clinical guidelines.
- Applied data pre-processing, feature engineering, and Non-Negative Matrix Factorization (NMF) to model latent relationships between symptoms and treatments.
- Ensured safety compliance by incorporating adverse drug event data and drug contraindications.

Multi-modal Mental Health Detector

01/2025 - 04/2025

- Built a Multi-Modal Deep Learning Model to detect stress, anxiety, and depression by analyzing user text, voice, and facial expressions.
- Implemented NLP pipelines using DistilBERT for textual emotion classification.
- Extracted MFCC features from audio and trained CNN/RNN architectures for vocal tone analysis..
- Applied early and late fusion techniques to combine modalities, achieving improved classification accuracy.

CERTIFICATES

- GEN Ai using Watsonx – IBM Adroit
- IBM Data Science Professional – Coursera
- Artificial Intelligence Fundamentals – IBM

EXTRA CURRICULAR

Technical Team Representative - Linux Club, VIT Bhopal

02/2024 - 04/2024

- Represented the technical team in organizing a competitive CTF event focused on Linux fundamentals, terminal navigation, and cyber security challenges.

Event Management Lead - Matrix, The Multimedia Club, VIT-Bhopal

01/2025 - 06/2025

- Successfully managed 2 major college-level events, leading a core event team of 10 and coordinating with 40+ cross-functional team members.

Hobbies & Interests: Football, Cricket, Video Games, Travelling