HARSH KAREKAR

+91 8983565190 • hkarekar0103@gmail.com • linkedin.com/in/harshkarekar • github.com/HarshK0103

PROFESSIONAL SUMMARY

Electronics and Communication Engineering with a strong self-driven focus on AI/ML and Data Science. Proficient in Python, machine learning, deep learning, and data analysis with hands-on experience in complex, real-world projects. Adept at building models from scratch and applying data-driven solutions beyond academic curriculum.

EDUCATION

B.Tech - Electronics and Communication Engineering

Vellore Institute of Technology, Bhopal | 2022-2026

- **Relevant Coursework:** Python Programming, Machine Learning, Deep Learning, Computer Vision, Signal Processing, Database Management Systems(SQL), Data Science and Analytics.
- **Certifications:**
  - Bits & Bytes of Computer Networking - Coursera
  - GEN Ai using Watsonx - IBM
  - Artificial Intelligence Fundamentals - IBM
  - VLSI Design Internship - Maven Silicon

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.

LEADERSHIP EXPERIENCE

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.
- Oversaw end-to-end event operations, ensuring smooth execution within university guidelines.

SKILLS AND INTERESTS

- **Languages:** Python, Java
- **Tools & Platforms:** VS Code, MySQL, Pandas, NumPy, Matplotlib, Scikit-Learn, Seaborn, Tensorflow, Git, Github, MATLAB, OpenCV, LT Spice, Ansys HFSS
- **Domains:** Artificial Intelligence(Ai), Machine Learning, Deep Learning, Data Science & Analytics, Computer Vision, Natural Languauge Processing(NLP), Neural Networks.