

# HARSH KAREKAR

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## EDUCATION

**Vellore Institute of Technology, Bhopal**  
*B.Tech in Electronics and Communications Engineering*

*Nov 2022 – May 2026*  
**8.18/10**

## TECHNICAL SKILLS

Python, Java, SQL, NumPy, Pandas, Matplotlib, Scikit-Learn, Seaborn, TensorFlow, Keras, PyTorch, DL-Frameworks, Generative Ai, Git, Docker

## TECHNICAL PROJECTS

**FraudShield – Hybrid Credit Card Fraud Detection System** *April 2024 – July 2024*

- Developed a hybrid fraud detection model using XGBoost (supervised) and Auto-encoder (unsupervised) architectures to identify fraudulent credit card transactions with high precision.
- Designed a hybrid risk scoring algorithm combining classification probability and anomaly reconstruction error to improve detection performance on highly imbalanced datasets.
- Deployed an interactive Streamlit web application with integrated SHAP explainability for real-time fraud prediction, visualization, and model interpretability.

**Multi-modal Mental Health Detector** *Jan 2025 – April 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

- OCI 2025 Certified Generative AI Professional** – [Oracle](#) *Oct 2025*
- IBM Data Science Professional** – [Coursera](#) *July 2025*
- Gen Ai using Watsonx** – [IBM Adroit](#) *Jan 2025*
- Artificial Intelligence Fundamentals** – [IBM Skillsbuild](#) *Oct 2024*

## EXTRA CURRICULAR

**Technical Team Representative - Linux Club, VIT-Bhopal** *Feb 2024 – April 2024*

- Represented the technical team in organizing a competitive CTF event focused on Linux fundamentals, terminal navigation, cyber security challenges and managing event infrastructure for 150+ participants.

**Event Management Lead - Matrix, The Multimedia Club, VIT-Bhopal** *Jan 2025 – June 2025*

- Led the planning and execution of 2 major college-level multimedia events, managing 500+ participants and coordinating with 40+ cross-functional team members for smooth event operations.

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