Manansinh Sandhaliya

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Education

VIT Bhopal University   **October 2022 - April 2026**
Bachelor of Technology in Computer Science and Engineering (Specialization in AI - ML)   *Bhopal, Madhya Pradesh, India*
CGPA: 8.55/10

Technical Skills

Programming Languages: Python, C++, Java
Machine Learning Skills: TensorFlow, Keras, PyTorch, Scikit-learn, OpenCV, Pandas, NumPy, Matplotlib, NLTK
Web Development: HTML5, CSS3, Tailwind CSS, JavaScript, React.js, Node.js, Express.js, Django, MySQL
Developer Tools: VS Code, Google Collab, Jupyter, Git, GitHub

Projects

MirAI 2.0 – Personal AI Assistant
Python, PySide6, OpenRouter API, Serper.dev, wttr.in, PyInstaller   **May 2025 - July 2025**

- Architected a lightweight AI desktop assistant using PySide6, **also 30% faster with a 3-panel GUI** for seamless UX.
- **Integrated 6+ LLMs** (Mistral, Claude, Gemma) via OpenRouter API, **enabling 95% accurate** NLP responses and **15% faster task automation**.
- **Boosted productivity 200%** by adding 5+ tools (Serper.dev search, wttr.in weather, YouTube Music, reminders, 1-click Ctrl+K execution).
- **Packaged into a 62MB** executable using PyInstaller, **cutting deployment time by 90%** with zero dependency issues.

DeceptiNet – Real-Time Digital Deception Detection System
Python, Flask, scikit-learn, TensorFlow, Pandas, NLTK, Rest APIs   **November 2024 - February 2025**

- Forged three AI-powered fraud detection systems (apps/clickbait/fake news) **from 53K+ labeled samples, achieving 80%+ accuracy** via fine-tuned ML pipelines.
- Optimized TensorFlow/scikit-learn classifiers with hyperparameter tuning, **boosting precision/recall by 15%** through targeted feature engineering..
- Deployed production-ready detection systems with **80% cross-domain accuracy** using domain-adaptive preprocessing and ensemble techniques.
- **Boosted model robustness 20%** via domain-tailored data augmentation and adversarial validation protocols.

Real Time Emotion Detector
Python, TensorFlow, Keras, OpenCV, NumPy, Streamlit, Scikit-learn   **August 2023 - November 2023**

- Spearheaded a custom TensorFlow CNN for emotion recognition, **achieving 70%+ multi-class accuracy** on FER-2013 through advanced layer optimization.
- Pioneered real-time OpenCV emotion detection **achieving 20+ FPS** via hardware-accelerated pipeline optimization.
- Programmed real-time emotion detection using OpenCV, refined to run smoothly at over 20 frames per second on webcam input.
- **Mitigated overfitting by 15%** via strategic dropout layers, early stopping, and model checkpointing.

Achievements

- Selected for **Amazon ML Summer School 2025**, among only **3,000 students across India**, gaining exposure to advanced ML concepts and real-world applications.
- National Semi-Finalist, **Flipkart GRiD 7.0 (2025)**, received certificate of Achievement in a national-level competition.
- Secured **2nd Place** in a university-level **Robotics and Coding Competition**.

Certifications

Blockchain Developer Certification – IBM Career Education Program

MERN Full Stack Developer Certification – Issued by Ethnus via Codemithra

Applied Machine Learning in Python – Issued by University of Michigan via Coursera