Manansinh Sandhaliya

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Education

VIT Bhopal University   **October 2022 - Present**
Bachelor of Technology in Computer Science and Engineering (Specialization in AI - ML)   *Bhopal, Madhya Pradesh, India*
CGPA: 8.44

Relevant Coursework

- Data Structures
- Computer Vision
- Operating System
- Computer Networks
- Database Management
- Deep Learning
- Machine Learning
- Computer Architecture

Projects

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

- Built a lightweight AI desktop assistant with a modern three-panel PySide6 GUI, integrating more than 6 free models via OpenRouter (Mistral, Claude Instant, Gemma) to answer queries, perform tasks, and simulate intelligent conversation.
- Enhanced functionality with live web search (Serper.dev), real-time weather (wttr.in), YouTube Music playback, a task reminder system, and a global hotkey (Ctrl+K); reduced response latency by 30% using async API calls.
- Packaged into a 62MB standalone Windows executable using PyInstaller, enabling plug-and-play deployment on over 120 machines without requiring Python or additional software.

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

- Developed and fine-tuned three fraud detection models for apps, clickbait, and fake news using 50,000 reviews, 3,000 headlines, and a Python library. Each model was trained and optimized for its specific domain
- Fine-tuned these classifiers using TensorFlow and scikit-learn frameworks to optimize performance for each fraud detection task individually, achieving up to 15% improvement in precision and recall metrics.
- Reached consistent accuracy exceeding 85% across all fraud detection tasks by leveraging domain-specific training strategies and data preprocessing.
- Leveraged domain-specific data and techniques to enhance classifier performance and reliability.

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

- Designed and trained a custom CNN model with TensorFlow/Keras for accurate facial emotion recognition using the FER-2013 dataset.
- Achieved over 70% accuracy across seven distinct emotion classes, demonstrating strong model generalization.
- Developed real-time emotion detection using OpenCV, optimized to run smoothly at over 20 frames per second on webcam input.
- Built a user-friendly Streamlit interface enabling both live webcam and static image emotion detection testing.
- Implemented dropout, early stopping, and validation checkpointing techniques to reduce overfitting by 15%.

Certifications

Blockchain Developer Certification – IBM Career Education Program
MERN Full Stack Developer Certification – Issued by Ethnus via Codemithra
NPTEL Elite + Silver Medal – *Privacy and Security in Online Social Media* (Scored 80%, ranked in the top 2% of 10,000+ students)

Technical Skills

Programming Languages: Python, C++, Java
Web Development: HTML, CSS, JavaScript, Django, MySQL
Developer Tools: VS Code, Google Collab, Jupyter, kaggle

Soft Skills and Hobbies

Languages: English, Hindi, Japanese, Gujarati
Drawing and Sketching, Chess, Cricket, Reading books
Leadership: Skilled in team coordination, conflict resolution, and fostering high-performance environments that enhance productivity and collaboration