Manav Acharya

Bhopal, Madhya Pradesh | +91 8160453633 | manav_2004@outlook.com |
https://github.com/Manushya-a | https://www.linkedin.com/in/manav-acharya-a76a14251/

EDUCATION

VIT Bhopal University
Bachelor of Technology
Cumulative GPA: 8.64/10

Bhopal, MP
Oct, 2022 – 2026

KD Ambani RF School
Std XII from CBSE and scored 79.6% in Board Examination

Jamnagar, Gujarat
Aug 2021

KD Ambani Vidhyamandir
Std X from CBSE and scored 92.8% in Board Examination

Jamnagar, Gujarat
March 2020

PROJECTS

Home Security System using Video Processing
Cybersecurity

- Developed a home security system using OpenCV for advanced face detection and tracking.
- Implemented automatic video recording of detected movements, saving footage for review.
- Utilized Python and OpenCV for robust and efficient video processing.
- Integrated local storage for easy access and playback of recorded videos.
- Implemented facial recognition to identify registered users, ensuring their movements are not recorded.

Detection of Depression Using Machine Learning Models
Machine Learning

- Developed robust machine learning models for the early detection of depression through the analysis of EEG data.
- Utilized a diverse set of algorithms including DecisionTreeClassifier, KNeighborsClassifier, Support Vector Classifier, Support Vector Machine, Gaussian classifier, Random forest classifier, AdaBoost classifier, and Multi-Layer Perceptron.
- Implemented comprehensive preprocessing techniques for EEG data, including artifact removal, segmentation, and feature extraction, to enhance model accuracy.
- Achieved promising accuracy rates through cross-validation techniques, ensuring the models' performance and generalizability for practical applications.
- Contributed to mental health diagnostics by demonstrating the potential of machine learning in identifying depressive states, paving the way for personalized and targeted interventions.

Secure File Encryption and Decryption Tool
Cyber Security

- Developed a user-friendly application for secure file encryption and decryption to safeguard sensitive information against unauthorized access.
- Implemented advanced cryptographic algorithms, including symmetric (AES, DES) and asymmetric (RSA) encryption techniques, to ensure data confidentiality.
- Identified and addressed potential vulnerabilities, incorporating best practices in cybersecurity to ensure robust protection.
- Provided an intuitive and efficient solution for individuals and organizations to protect sensitive information from cyber threats, promoting secure data handling practices.

SKILLS AND CERTIFICATIONS

Technologies:

- **Programming Languages:** C, C++, Python, Java
- **Web Technologies:** HTML, CSS, JavaScript,

- **Databases:** MySQL
- **IDE:** VS Code

Certifications:
- Bits and Bytes of Computer Networking – December 2023
- Cloud Computing – March 2024
- Prompt Engineering – Dec 2023
- Getting Started with Figma – Sep 2023

EXTRA-CURRICULARS

Student Council   VIT Bhopal University
DSW Core Team
- Organized 30+ events in the last 6 months that took part under the Student Welfares' Office.
- Managed the annual fest's events, involving 500+ participants and an audience of 12000+ students.
- Master of Ceremony for both the college's annual fests and hosting over 6000+ students.

Music Club [October 2022- Ongoing]   VIT Bhopal University
- Core Member
- Managed the annual fest's stage, involving over 300+ musicians, and audience of approximately 12000+ students.
- Anchored several performances in college events.