Shubh Gupta

Bhopal | +91 8737976728 | Mail | LinkedIn | GitHub | X | LeetCode | HakkerRank | GeeksForGeeks | CodeChef

EDUCATION

B. Tech Computer Science & Engineering (AI & ML)

VIT Bhopal University CGPA: 8.7 2022-2026

Intermediate Examination UP Board – Class XII

Suraj Gyan Inter College 2020-2022

Senior Secondary Examination CBSE Board- Class X

Gurukulam Public School 2018-2020

TECHNICAL SKILLS

Programming Languages: **Python**, **C++**, C, Java.

Data Structures & Algorithms

Technologies/Framework/Libraries: HTML, CSS, MySQL, PHP, **Git**, **Pandas**, **NumPy**, Matplotlib, **Sklearn**, TensorFlow, PyTorch, OpenAI, Transformers, **Machine Learning**, **Deep Learning**, **Computer Vision**, Natural Language Preprocessing.

ACHIEVEMENTS

- **Second** Position in University Level Mathematics Quiz Competition.
- **5 Star** in **Python, C++ and Java** from HakkerRank.
- **200+** problem solved across different platform.

EXPERIENCE

Vice President – Software Development Club

- Manages Club Activities.
- Planning of Club Events and Programs.

CERTIFICATION

- **Applied Machine Learning in Python**
- Intermediate Machine Learning
- Intro to Deep Learning
- **Programming In C++**
- **Mastering Data Structure & Algorithms using C++**
- Python Essentials

PROJECTS

EvolkAI Website – Link

- Technologies used: **HTML**, **CSS**, JavaScript, **PHP**.
- Develop this website to provide Codes, Knowledge and Application of **Machine Learning**, Deep learning, Natural language Preprocessing (NLP), Computer Vision.
- This website designed to be easy to use, regardless of the device used, by implementing a responsive Design.

Emotion Detection – GitHub | Video

- Technologies used: Computer Vision, Deep Learning, Python, HTML, CSS, PHP.
- Develop this software to recognise emotion in real-time.
- The system employs a **CNN** (**Deep Learning** Model) for Detecting Emotion. This model is trained to predict emotion into seven categories: **Angry, Disgust, Sad, Happy, Neutral, Surprised and fearful.**
- It can detect emotion in real time with **accuracy more than 92%**.

SenText – GitHub | Video

- Technologies used: **Machine Learning**, HTML, CSS, **Python**, PHP, **Natural Language Preprocessing.**
- SenText is an interface-friendly sentiment analysis project. Users can submit their statements for analysis.
- The system employs a **Multinomial NB** (**Machine Learning** Model) for sentiment analysis. This model is trained to predict statements sentiment into three main categories: **Positive, Negative, and Neutral.**
- SenText prioritises simplicity, making it simple for users to enter their statements. After that, the text is processed by the machine learning model to determine the statement's sentiment.
- As SenText evolves, there's potential for further enhancement and expansion of sentiment categories.

V-Rides – GitHub | Video

- Technology used: **HTML, CSS,** JavaScript**, PHP, MySQL, UI/UX**.
- V-Rides incorporates advanced features like **QR code access**, an **inbuilt wallet**, and **real-time bicycle health monitoring** to enhance user experience.
- Key functionalities include QR-based unlocking, **flexible rental durations**, **multiple payment options**, and the ability to make **multiple bicycle bookings**.
- Other functionality Includes Query solution, **Ride tracking**, **User account control**, **Cycle Management** etc can be done by developers.
- This is Group project presented at college, as a collaborator I contributed to the **backend development**, resulting in the project achieving the **highest grade**, marked as S.

PUBLICATIONS

Exploring EEG Characteristics and Machine Learning Classifiers for Accurate Detection of Eye-Blink Mistakes

- I have developed a framework for accurately **predicting eye movements** from high-dimensional and imbalanced datasets.
- Applied various **Machine Learning** algorithms and assessing their performance using metrics such as **Recall, Precision, Accuracy, F1-score, and AUC-ROC.**
- After applying **ML Models**, I analyse them to predict eye movement.

Revealing Hidden Patterns: A Deep Learning Approach to Camouflage Detection

- As Main author, I spearheaded the **development of a framework focused on identifying camouflage in images** within military defence and wildlife conservation operations.
- Applied Deep Learning Technique like **CNN, ANN, LSTM, Pipeline model of CNN+ANN, ANN+LSTM** etc.
- This research contributes valuable insights **for military defence and wildlife conservation applications.**