

Vibhor Gupta

☎ +91-9929244909 ✉ vibhorgupta22@gmail.com 🔗 [linkedin.com/in/vibhorgupta01/](https://www.linkedin.com/in/vibhorgupta01/)

Education

Netaji Subhas University of Technology (NSUT)
Bachelor of Technology in Computer Science

July 2022 – May 2026
Delhi, India

Technical Skills

Languages: C, C++, Python, SQL, JavaScript, MySQL
Technologies/Frameworks: Scikit-learn, TensorFlow, Keras
Other Tools: Git, GitHub, Jupyter Notebook, Google Collab, Weka

Coursework

Design and Analysis of Algorithm, Database Management System, Operating System, Machine Learning, Theory of Automata, Software Engineering, Web Technology, Probability and Stochastic Processes

Projects

Sentiment Analysis to Optimize Stock Forecasting

Python, LSTM, SciKit-Learn

- Developed a predictive model using sentiment analysis from social media, financial news, and earnings reports. Used FinBERT for financial sentiment scoring.
- Integrated sentiment scores with MACD, CMF, and MACD Signal to forecast stock prices using LSTM.
- Currently enhancing model for real-time processing with Reinforcement Learning techniques.

Movie Recommendation System

Python, MySQL, JavaScript, HTML, CSS

- Built a platform providing mood- and genre-based personalized movie suggestions with login functionality.
- Used MySQL for backend storage and Python for sentiment-based recommendation logic.

Face Detection and Recognition

Python, TensorFlow, OpenCV, MySQL

- Designed a face detection and recognition system using a Siamese Neural Network for automating attendance.
- Achieved 98% accuracy in difficult lighting conditions; stored recognized faces in MySQL database.

Language Detection and Topic Modelling

Python, GAT, LDA

- Built a semi-supervised model for detecting Indian languages (Hindi, Bengali, Urdu, Telugu, Gujarati) using Graph Attention Networks.
- Applied LDA to categorize large text datasets into distinct topics for better NLP applications.

Meme and Hateful Speech Classification

Python, Gensim, Scikit-learn, CLIP

- Built a classification system to detect harmful content in memes and textual speech using the Facebook Meme Dataset, comprising over one million labeled samples.
- Leveraged the CLIP model to extract joint visual-textual embeddings from memes, enabling more accurate classification based on contextual cues.
- Applied Gensim's LDA for topic modeling and Scikit-learn for supervised classification of harmful versus non-harmful content.
- Integrated a lightweight generative model to produce explanatory moderation messages, justifying each classification in a human-understandable format.