

Manas Gupta

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Education

VIT Bhopal University, Bhopal

B.Tech. in Computer Science and Engineering

2022 – 2026

CGPA: 8.51/10

TECHNICAL SKILLS

Java, Python, MySQL, Data Science, Machine Learning, Generative AI (LLMs, GANs), TensorFlow, Pandas, NumPy, Tkinter, Matplotlib, Scikit-learn, Object-Oriented Programming, Database Management Systems.

PROJECTS

AI-Powered Desktop Assistant | Python, JavaScript

- Designed and implemented an intelligent voice-activated desktop assistant to streamline repetitive tasks including web browsing, email lookup, and calendar scheduling, thereby saving an estimated **4+ hours per week for a user group of 10 individuals**.
- Integrated **OpenAI API**, **Natural Language Processing (NLP)**, and **Speech Recognition** hence reducing daily input time by 40%.
- Deployed **Text-to-Speech (TTS)** functionality using Pyttsx3 to support auditory feedback and assist visually impaired users, significantly improving accessibility and ease of use.
- Ensured cross-platform compatibility and lightweight performance, enabling smooth operation on mid-range systems.
- Technologies Used:** Python, JavaScript, OpenAI API, Speech Recognition, Pyttsx3, NLTK

Stock Market Price Predictor | Python, Machine Learning

- Developed a robust predictive analytics tool for stock market forecasting by collecting and preprocessing over **1,000 data points** from **Yahoo Finance**, focusing on Indian stocks such as **TCS** and **Infosys**.
- Built and fine-tuned **Long Short-Term Memory (LSTM)** and **Linear Regression** models to predict short-term price trends, achieving an accuracy rate of approximately **80%** on validation datasets.
- Implemented data visualization dashboard with **Matplotlib** to track real-time trends and comparisons.
- Designed the project with scalability in mind, allowing for future integration of more advanced financial indicators or live stocks APIs.
- Technologies Used:** Python, Pandas, NumPy, Scikit-learn, Matplotlib

Event Ease – Ticket Booking & Event Management System | Python, Flask, PostgreSQL

- Developed a full-stack platform for seamless event discovery, ticket booking, and organizer dashboard functionalities for managing attendees and tracking analytics.
- Designed role-based modules for users and event organizers, integrating secure login using JWT and dynamic event capacity tracking in real-time.
- Automated email confirmations and QR-based e-ticket delivery via SMTP to improve user experience and booking verification.
- Built a scalable backend architecture using Flask and PostgreSQL, enabling easy integration of payment systems and third-party event APIs.
- Technologies Used:** Python, Flask, HTML/CSS, PostgreSQL, JWT, SMTP, QR Code

CERTIFICATIONS

- Generative AI Specialization** | Udemy | 2025
- Data Science And Machine Learning** | Udemy | 2025
- Marketing Analysis** | NPTEL | 2025