

# Divyansh Gupta

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## PROFESSIONAL SUMMARY

Computer Science undergraduate with a strong interest in machine learning, data analysis, and signal processing, supported by practical project experience. Eager to contribute problem-solving skills and technical knowledge to real-world applications while continuing to learn and grow.

## EDUCATION

### VIT Bhopal University

Bachelor of Technology, CGPA: 8.50

Oct 2022 – May 2026

Sehore, Madhya Pradesh

## TECHNICAL SKILLS

**Languages:** Python, MySQL, HTML/CSS

**Machine Learning & Data Analysis:** Regression, Model Evaluation, Feature Engineering

**Libraries & Tools:** pandas, NumPy, Matplotlib, Scikit-learn

**Developer Tools:** Git, Github, VS Code

## PROJECTS

### Custom Music Equalizer

Nov 2023 – Jan 2024

- Developed a custom music equalizer using Fourier Transform and Inverse Fourier Transform to remove background noise and adjust playback speed.
- Implemented **scikit-learn** for signal processing and **Matplotlib** for visualizing noise adjustments.
- Collaborated with a team to design and prototype the application.

### AQI Prediction Model

Oct 2024 – Feb 2025

- Built a composite model to predict Air Quality Index (AQI) for pollution monitoring and control.
- Collected real-time air quality data for CO<sub>2</sub>, NO<sub>x</sub>, and CO to improve forecasting accuracy.
- Analyzed historical datasets to support urban planning and policymaking.

### Environmental Noise Level Prediction System

Mar 2025 – Apr 2025

- Designed a machine learning system to predict environmental noise levels using real-world audio sensor data.
- Applied signal processing techniques and regression models to forecast decibel levels with high accuracy.
- Visualized noise patterns and prediction results using **pandas** and **Matplotlib**.

## HOBBIES AND EXTRACURRICULARS

- Practices yoga regularly, fostering discipline and focus.
- Enjoys listening to music and gaming as creative and strategic outlets.
- Active member of **FYI (Fraternity of Young Innovators)** club at college; contributed to organizing events for the annual technical fest.