

# Divyansh Gupta

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## EDUCATION

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### VIT Bhopal University

Bachelor of Technology (CGPA - 8.52)

Sehore, Madhya Pradesh

October 2022 – May 2026

## PROJECTS

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### Custom Music Equalizer

November 2023 – January 2024

- Developed a custom music equalizer that employs Fourier Transform and Inverse Fourier Transform to filter background noise, enabling users to adjust playback speed.
- Implemented libraries such as scikit-learn for signal processing and Matplotlib for visualizing noise adjustments, enhancing user experience.
- Collaborated with a team to design and prototype the application

### AQI Prediction Model

October 2024 – February 2025

- Developed a composite model that predicts Air Quality Index (AQI) values and aids in pollution control, addressing air quality degradation from industrial emissions and vehicular pollution.
- Employed data collection techniques, including real-time air monitors, to track pollutants like carbon dioxide, nitrogen oxides, and carbon monoxide, significantly enhancing forecast accuracy.
- Analyzed historical data to improve AQI predictions, enabling more effective pollution control strategies in urban planning and policymaking.

## TECHNICAL SKILLS

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

**Developer Tools:** Git, VS Code

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

## CERTIFICATIONS

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**Cloud Computing – NPTEL**