

VAIBHAV VISHWAKARMA

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Portfolio

SUMMARY

ECE undergraduate at NIT Delhi with strong skills in DSA, ML, and Web Development. Currently applying them in real-world projects including EEG-based seizure detection.

EDUCATION

National Institute of Technology, Delhi

ECE — **8.15 CGPA**

Aug 2023 – Jul 2027

Delhi, India

St. Peter's Senior Secondary School, Chandigarh

Intermediate (Science - PCM) - CBSE - **90%**

Apr 2021 – Jul 2022

Chandigarh, India

Saraswati Sr. Sec. Vidya Mandir, Deoria

High School - CBSE - **92.3%**

Apr 2019 – Jul 2020

U.P., India

PROJECTS

Epileptic Seizure Detection using EEG Signal Analysis

Feb 2025 – Present

- **Tech Stack:** Python, NumPy, Pandas, Matplotlib
- Conducted detailed research on EEG signals and epileptic seizure patterns to understand biomedical relevance.
- Collected and cleaned EEG datasets using NumPy and Pandas; created exploratory visualizations using Matplotlib.
- Currently studying existing ML models and research papers to implement and evaluate suitable approaches.

Qibla Compass using Arduino

Dec 2024

- **Tech Stack:** Arduino Nano, HMC5883L Magnetometer, Serial Display
- Designed a Qibla Compass using Arduino Nano and HMC5883L magnetometer to determine real-time direction for prayers.
- Implemented auto-calibration and direction logic with visual feedback via serial display output.

Bluetooth-Controlled Robot Car

May 2024

- **Tech Stack:** Arduino Uno, HC-05 Bluetooth Module, L298N Motor Driver
- Built a robot car using Arduino Uno and HC-05 module, controlled wirelessly via a smartphone application.
- Programmed motor control using L298N driver for directional movement and real-time response.
- Tested smooth command handling and obstacle-free operation for indoor environments.

EXPERIENCE

Department of ECE, NIT Delhi

June 2025 – July 2025

Delhi, India

Research Intern — Seizure Detection Project

- Working under faculty supervision on EEG-based epileptic seizure detection using machine learning techniques.
- Conducting dataset exploration, paper reviews, and implementation planning for signal-based classification.

Training and Placement Cell, NIT Delhi

Jan 2025 – Present

Calling Coordinator

Delhi, India

- Communicating with company HRs to invite them for campus placements and internships.
- Enhanced interpersonal and verbal communication skills through regular professional interactions.

Technical Skills

Languages: C, C++, HTML, CSS, JavaScript, Python

Frameworks: ReactJS, Tailwind CSS, NumPy, Pandas, Matplotlib

Tools: Git, GitHub, VS Code, Arduino IDE, MATLAB, LTspice, Canva