

VARUN VASHISTH

varunvashisth2006@gmail.com | +91 9896009680 | LinkedIn: <https://www.linkedin.com/in/varun-vashisth-a17b08290/> | GitHub: <https://github.com/VarunVashisth> | Portfolio: <https://varunvashisth.in/>

PROFILE

Backend-focused engineering student at IIIT Nagpur with strong interest in API development, system design, databases, and AI-powered applications. Currently building real-world projects using FastAPI, PostgreSQL, SQLAlchemy, and React while exploring scalable backend architectures, authentication systems, and developer tools.

EDUCATION

Indian Institute of Information Technology Nagpur (IIIT Nagpur) | B.Tech Electronics & Communication Engineering |

TECHNICAL PROJECTS

Developed Request Analytics & Monitoring Platform(<https://requestvault-ten.vercel.app/>)

Built a request monitoring and analytics platform using FastAPI, SQLAlchemy, and PostgreSQL. Implemented API-key authentication, SDK based request capture, structured logging, analytics workflows, and scalable service-layer architecture. | Github : [backend](#) , [SDK](#) , [frontend](#) .

AI-Powered Personal Assistant

Developed an AI assistant with contextual memory, retrieval-augmented knowledge access, and project aware interactions. Designed backend architecture for memory persistence, document ingestion, and intelligent task assistance. | Github : [project](#) .

AI-Assisted Debate & Reasoning Platform(<https://disputo.vercel.app/>)

Developed an AI-powered debate and reasoning platform that simulates structured discussions and evaluates arguments from multiple perspectives. Designed backend APIs, conversation workflows, and data models for storing, processing, and analyzing debate interactions. | Github : [project](#) .

Edge AI System for Real-Time EMG Gesture Recognition

Engineered an embedded AI pipeline for real-time classification of EMG-based hand gestures on ESP32 microcontrollers. Developed signal-processing, feature-engineering, and optimized inference workflows for deployment on resource-constrained devices.

LEADERSHIP & EXPERIENCE

Google Developer Student Clubs (Design Team) – Collaborated with cross-functional teams to create assets for technical events and community initiatives.

Technical Content Creator – Produced educational content focused on mathematics, technology, and problem-solving concepts.

ACHIEVEMENTS

- Qualified GATE 2026
- Designathon Finalist, IIT Roorkee
- Participated in Kaggle's 'Make Data Count: Finding Data References' challenge
- Built multiple independent software, AI, and engineering projects
- Experience spanning backend development, product design, and technical communication

TECHNICAL SKILLS

Languages: Python, Java, JavaScript

Backend: FastAPI, REST APIs, PostgreSQL, SQLAlchemy

Frontend: React, HTML, CSS

Tools: Git, GitHub, Figma, Canva, Adobe Creative Suite

Concepts: Object-Oriented Programming, Database Design, API Design, Authentication, System Architecture