ABHINAV VISHNU MOHAN

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LinkedIn / GitHub /Portfolio

EDUCATION

- **VIT Bhopal** — **Oct 2022 – Jun 2026**
  B.Tech in Computer Science (core) — *CGPA: 8.05*
  Coursework: Front End Development

PROJECTS

- **AI-Powered Wildlife Monitoring System** — *Nov 2024 – Apr 2025*
  - Trained a YOLOv8 model, achieving **91% training** and **95% validation accuracy** on the NTLNP dataset across 17 species.
  - Integrated real-time geolocation and alerting system using Leaflet.js for map visualization and Twilio API for automated SMS alerts during wildlife detections.
  - Built an interactive dashboard using React and a Python backend, enabling live detections, manual uploads, and analytics.

- **Store Rating Full Stack Application** — *Aug 2025 – Aug 2025*
  - Developed a full-stack store rating application using React, Node.js, and PostgreSQL, featuring a secure RESTful API with JWT authentication.
  - Implemented role-based access control for three user types (Admin, Store Owner, User) with dedicated, interactive dashboards.
  - Engineered a polished UI with Material-UI, including live search/filtering, data visualizations, and a dark mode theme toggle.

- **AI Code Documentation Tool** — *Aug 2025 – Sep 2025*
  - Developed a full-stack web application to automatically generate clear documentation for code snippets by integrating with the Google Gemini AI API.
  - Engineered a secure authentication system from scratch using JWT for user registration, login, and persistent sessions, allowing users to save and view their generation history.
  - Built with the MERN stack (MongoDB, Express.js, React, Node.js) and styled with Tailwind CSS & Shadcn/ui for a modern, responsive user interface.

TECHNICAL SKILLS

Languages :	Python , SQL , JavaScript.
Web development :	HTML , CSS , JavaScript , React , Node.js.
Databases :	MongoDB , MySQL , PostgreSQL.
Cloud/Infra:	AWS,OCI, GitHub Actions

CERTIFICATIONS

- Full Stack developer MERN   - Issued by Smart Bridge – MongoDB — *Jan 2025 – May 2025*

- Data structures and algorithms - Issued by Face prep — *Feb 2025 – Apr 2025*

EXTRACURRICULAR ACTIVITIES

- Participated in the National Road Safety Hackathon 2025, an event jointly organized by the National Highways Authority of India (NHAI) and the Highway Operators Association of India (HOAI).

- Mozilla fire fox club-Core member

- English (Fluent), Malayalam (Native), Hindi