Harshvardhan Singh Thakur

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EDUCATION

- **VIT Bhopal University** — Bhopal, Madhya Pradesh
  B.Tech in Computer Science; CGPA: 7.63 — *July 2023 – May 2027*

CERTIFICATIONS

- **Oracle Cloud Infrastructure 2025 Generative AI Professional**: (Jul 2025)
- **IBM Generative AI Fundamentals**: (Jun 2025)
- **The Bits and Bytes of Computer Networking**: (Nov 2025)
- **Introduction to Machine Learning (NPTEL)**: Completed course covering supervised/unsupervised learning and model evaluation techniques.

PROJECTS

- **AgroMind: AI-Powered Smart Agriculture Platform**: Architected a full-stack solution using the **MERN Stack (MongoDB, Express.js, React, Node.js)** to assist farmers. Integrated **Generative AI (LLMs)** to analyze soil data and provide real-time crop recommendations. Utilized **MongoDB Atlas** for scalable vector search and data management, reducing query latency for complex agricultural datasets.
- **VidyaDrishti: Rural Education Analytics Tool**: Developed an EdTech platform focused on optimizing learning in village schools. Engineered a custom **'Focus Score' algorithm** to track and quantify student engagement. Optimized backend **REST APIs** and database schemas to ensure reliable data persistence (focus metrics) in low-bandwidth environments.

TECHNICAL SKILLS

- **Languages**: Java, JavaScript, Python, SQL, HTML/CSS
- **Frameworks & Libraries**: React.js, Node.js, Express.js, Mongoose, Pandas, NumPy, Tailwind CSS
- **Databases**: MongoDB, MySQL
- **Tools & Platforms**: Git, GitHub, AWS, Vercel, VS Code, Postman, Render
- **Core Concepts**: Data Structures & Algorithms, OOP, DBMS, REST APIs, Computer Networks, OS

ACHIEVEMENTS & RESPONSIBILITIES

- **Smart India Hackathon (SIH) - Internal Round Qualifier**: Selected as one of the top teams in the University Internal Round to represent the institute for the **Smart India Hackathon**. Demonstrated technical expertise by pitching a robust solution to a panel of judges.
- **Hackathon Participation**: Active participant in the **Hack-n-Go MongoDB Hackathon** and **ShikshaLokam Hackathon**. Built functional prototypes under strict deadlines, utilizing MongoDB and rapid application development strategies.
- **NSS Volunteer, VIT Bhopal**: (July 2025) Contributed to community welfare initiatives as an active volunteer. Successfully coordinated a large-scale plantation drive, demonstrating teamwork, event management skills, and social responsibility.