

Agam Katiyar

Bhopal, India | +91 8808024529 | agamkatiyar11@gmail.com | [LinkedIn](#) | [Github](#)

EDUCATION

B.Tech (Bachelor of Technology) Computer Science(AI & ML)

VIT-Bhopal University

Aug 2023 – Expected Aug 2027

GPA: 8.35/10

CORE TECHNICAL SKILLS

- **Languages:** Java, Python, JavaScript
- **Web Development:** Node.js, React.js, HTML5, CSS3, Rest API
- **Databases:** MySQL, MongoDB
- **Core Concepts:** Data Structures & Algorithms, OOP, Machine Learning, Artificial Intelligence, Deep Learning, API Development
- **Tools & Practices:** Git/GitHub, LangChain, LangGraph, OpenCV, TensorFlow

PROJECTS

H-GestureControl: Laptop Control Using Hand Gestures- [Link](#)

- Developed a hands-free laptop control system enabling users to perform basic tasks using real-time hand gesture recognition via webcam.
- Implemented features including cursor movement, volume adjustment, and window switching without the need for external hardware.
- Utilized **Python, OpenCV, MediaPipe** for gesture detection and **PyAutoGUI** for mapping gestures to system actions.
- Designed with a focus on accessibility and enhanced user interaction.

AI-based Deepfake Detection Website

- Built a web application that analyzes uploaded videos and returns **deepfake probability scores** in real time.
- Applied **transfer learning on Xception Net**, customizing the classification layer for improved detection accuracy.
- Developed using **Python, Flask, TensorFlow, OpenCV, HTML/CSS, and JavaScript**.

Translating Programming Language using API

- Developed an **automated code translation system** with Node.js backend and GEMINI API, supporting multiple programming languages.
- Implemented **real-time conversion with syntax validation and error handling** to ensure accuracy and reliability.
- Improved **developer productivity and code reusability** for legacy migration, cross-platform projects, and learning tools.

EXTRA-CURRICULAR AND ACHIEVEMENTS

Hackathon and Coding -

- University-Level Hackathons.
- **AI/GenAI Hackathon 2025 (Participant):** Proposed an AI-powered deepfake video detection system using ML and DL.
- **GrabHack Hackathon:** Designed an autonomous AI coordinator to manage disruptions, query APIs, and execute recovery plans.
- **National CyberShield Hackathon:** Proposed an AI-based fraud detection model for real-time suspicious transaction flagging with feature engineering and ML.

Volunteer and Social Work -

- **Event Volunteer, NSS VIT Bhopal** – Contributed to the “**10,000 Mega Tree Plantation in a Day**” initiative (Sehore District Forest Area, Aug 2024), supporting large-scale environmental sustainability efforts.

CERTIFICATIONS

- **Data Engineering Foundation Certificate-** Informatica
- **Applied Machine Learning in Python** - University of Michigan(Coursera)
- **Fundamentals of AI and ML-** Vityarthi
- **Cloud Computing-** NPTEL