Agam Katiyar

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EDUCATION

B.Tech (Bachelor of Technology) Computer Science(AI & ML)   Aug 2023 - Aug 2027
VIT-Bhopal University   *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, Artificial Intelligence, Machine Learning, 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.
- Integrated Python, OpenCV, and MediaPipe for gesture detection and PyAutoGUI to streamline system actions, contributing to findings that corrected the 5 most frequent recognition errors.
- 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:** Pioneered the creation of an AI-driven disruption management system during GrabHack, enabling the autonomous management of 10 disruptions with minimal manual intervention, a notable achievement for a hackathon project.
- **National CyberShield Hackathon:** Proposed an AI-based fraud detection model for real-time suspicious transaction flagging with feature engineering and ML.
- Solved- 100+ Problems (GFG), 130+ Problems (Leetcode).

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-** Informatica
- **Applied Machine Learning in Python-** University of Michigan(Coursera)
- **Cloud Computing-** NPTEL