Agam Katiyar

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EDUCATION

B.Tech CSE(AI & ML)   Sep 2023 - July 2027
GPA: 8.35/10

VIT BHOPAL UNIVERSITY

CORE TECHNICAL SKILLS

- Java
- MongoDB
- HTML
- CSS
- JavaScript

- Data Structure & Algorithm
- MYSQL
- Machine Learning(Basic)
- Git (Basic)
- REST API's (Basic)

- React
- Artificial Intelligence(Basic)
- Deep Learning
- Python

PROJECTS

H-GestureControl- Laptop Control Using Hand Gestures

- Built a system that lets users control their laptop using hand gestures detected through the webcam, without needing a mouse or keyboard for basic tasks. The main goal was to create a more accessible and hands-free way to interact with a laptop.
- **Features**: Detects hand movements in real time, supports gesture-based actions like moving the cursor, adjusting volume, and switching windows. The system doesn't need any external hardware – just a built-in webcam.
- **Tech Stack**: Python, OpenCV, MediaPipe for hand detection, and PyAutoGUI for linking gestures to system actions.

AI-based Deepfake Detection Website

- Developed a web app that accepts video uploads and returns deepfake probability scores. Utilized transfer learning on Xception Net by replacing the base classification layer with a custom layer.
- **Technologies Used:** Python, Flask, TensorFlow, OpenCV, HTML/CSS, JavaScript.

EXTRA-CURRICULAR AND ACHIEVEMENTS

Integration for AI/GenAI Hackathon 2025– Participant

- Proposed an AI-powered solution for deepfake video detection, leveraging machine learning and deep learning techniques to identify manipulated media.

GrabHack Hackathon(Third Round Ongoing)

- Proposed An autonomous AI coordinator that reasons + acts with tools in real time.
- Understands disruptions, queries logistics APIs, executes recovery plans, and logs every step transparently.
- Moves from "alerting" → "autonomous resolution."

National CyberShield Hackathon(Ongoing)

- **Developed an AI-based fraud detection model** to flag suspicious financial transactions in real time using feature engineering, machine learning, and alert visualization, reducing false positives and adapting to evolving fraud patterns.

CERTIFICATIONS

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