

# CHETAN KHAPEDIA

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## EDUCATION

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### B.Tech – Artificial Intelligence & Data Science

*Prestige Institute of Engineering Management & Research, Indore*

## TECHNICAL SKILLS

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- Programming: Python, JavaScript (Basic), C/C++ (Basic)
- AI/ML: Machine Learning, Deep Learning, CNN Basics
- Full Stack: MERN Stack (Project-based)
- IoT & Embedded: Sensors, Automation Systems (Learning)
- Tools: NumPy, Pandas, OpenCV (Learning), Git, Docker (Basic), Android Studio, KiCad
- Web: HTML, CSS.

## ACADEMIC PROJECTS

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### AI-Powered Online Quiz & Assessment Platform (Major Project)

- Built full-stack platform using MERN + AI.
- Implemented proctoring: face detection, tab tracking, anti-cheating.
- Designed role-based system with JWT authentication.
- Developed analytics dashboard for performance insights.

### Deepfake Detection System (SIH Problem Statement)

- Developed AI system to detect manipulated images/videos.
- Implemented deep learning models and deployed as a web app.

### Chatbot for Mining Industry (SIH Problem Statement)

- Built chatbot for answering mining regulation queries.
- Applied NLP for automated responses.

### Research Publication

- "Deep Learning Based Deepfake Detection Tool" – International Journal, 2024.

## PROJECTS (IN PROGRESS)

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### Smart Agrotech System

- Developing IoT-based agriculture monitoring & automation.
- Working on sensor integration and control logic.

### Android App with AI

- Building Android app using Kotlin with AI-based features.

## CURRENT WORK / LEARNING

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- Building IoT-based smart agriculture systems.
- Learning embedded systems & PCB design (KiCad).
- Practicing AI + IoT system integration and Exploring Edge AI (Jetson, Raspberry Pi)
- Improving core programming and problem-solving skills.

## CERTIFICATIONS

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- Deep Learning – Internshala
- Internet of Things – Internshala
- Machine Learning using Python – Infosys
- Computer Networks – NPTEL (IIT Kharagpur)
- Data Science – IBM