

DEEPENDER YADAV

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SUMMARY

Aspiring Software and AI Engineer with a strong foundation in Python, computer vision, and machine learning. Passionate about developing innovative, user-centric solutions, as demonstrated through projects like an AI-powered head-tracking mouse and an LLM-based flashcard generator. Eager to apply my technical skills and collaborative mindset to an impactful internship or full-time software development role.

SKILLS

- **Programming Languages:** Python, Java, C, JavaScript, R
- **AI/ML & Computer Vision:** Scikit-learn, OpenCV, MediaPipe, Prompt Engineering, LLM APIs (Gemini, Hugging Face)
- **Web & Databases:** Flask, Streamlit, HTML, CSS, JavaScript, MySQL, Database Management Systems
- **Tools & Libraries:** Git, GitHub, Numpy, Pandas, pyautogui, Responsive Design, UI/UX Principles
- **Core Concepts:** OOP, Data Structures & Algorithms
- **Soft Skills:** Time Management, Problem-Solving, Leadership, Analytical Thinking

PROJECTS

- CursorViaCam – Vision-Based Assistive HCI System**[GitHub](#)
 - Engineered an assistive HCI system that enables complete, hands-free desktop navigation for users with motor impairments by architecting a real-time, low-latency computer vision pipeline.
 - Utilized **OpenCV** and **MediaPipe** for high-precision facial landmark tracking, translating nuanced head gestures into smooth cursor control and click actions via a custom **PyAutoGUI** logic module.
 - **Tech Stack:** Python, OpenCV, MediaPipe, PyAutoGUI
- AI Flashcard Generator– LLM-Powered Knowledge Synthesis Platform**[GitHub](#)
 - Pioneered a sophisticated learning accelerator that uses a **Zephyr-7B-β LLM** and advanced prompt engineering to autonomously deconstruct complex academic texts into high-yield Q&A flashcards.
 - Developed and deployed an intuitive **Streamlit** UI for seamless content submission and one-click export to Quizlet (CSV), directly enhancing student and professional learning workflows.
 - **Tech Stack:** Python, Streamlit, Hugging Face API, Large Language Models (LLMs)
- AutoDoc AI– AI-Driven Documentation Engine for Open-Source Projects**[GitHub](#)
 - Dramatically accelerated developer workflows by building an AI engine that auto-generates professional, comprehensive, and structured GitHub READMEs from high-level project descriptions.
 - Leveraged the **Gemini API** within application to produce SEO-optimized markdown, strategically boosting project visibility and discoverability in the open-source community.
 - **Tech Stack:** Python, Gemini API, Large Language Models (LLMs)

CERTIFICATIONS

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| • AWS – Solutions Architecture: Forage | Jul-2025 |
| • Deloitte Australia – Technology: Forage | Jul-2025 |

TECHNICAL EXPERIENCE

- **Hackathons:**

HackUtsav 1.0 – The NorthCap University (2024)	Nov-2024
Hacked 3.0 – BML Munjal University (2025)	Feb-2025
Hackverse – IILM University (2025)	Apr-2025
- **University Involvement:**

Active member of Gurugram University Tech Club; participated in coding contests and showcases.

EDUCATION

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| B.Tech in CSE (AI Specialization) | <i>Gurugram, Haryana, India</i> |
| Gurugram University | 2023 – Present |
| CGPA: 8.5 / 10.0 | |