

HARSH KUMAR

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SUMMARY

- A Dedicated Software Development Engineer. I love to write code, and making a piece of sand to perform whatever tasks I ask it to do is a great power. I use this power to be lazy :), Achieved **10+ national hackathon wins** and still counting.

WORK EXPERIENCE

Founding Engineer

Jun'25 - Present

Sloth Pays [Powersmy Ai Lab]

Remote, Bangalore, Karnataka

- Developed an end-to-end automated video production platform that transforms business information into complete videos with **AI-generated avatars**, scripts, captions, and images using **HeyGen**, **ElevenLabs**, **Remotion**, and **Nano Banana** for seamless content creation.
- Built an autonomous code generation system with **LangGraph** that reduced manual work by **75%**, achieved **85%** automated test pass rates, and improved accuracy by **30%** through **RAG integration** with custom indexing.

SDE Intern

Apr'25 - Jun'25

PageUp

On-site, Jabalpur, Madhya Pradesh

- Built a **finance application** using **Angular** with a **JSON server** backend to manage and track expenses, featuring an interactive dashboard for real-time expense visualization.
- Developed and optimized a **school bus routing system** leveraging **Python**, **DBSCAN clustering**, and **Leaflet.js**, reducing total route distances by **25%**.

PROJECTS

DPS Bus Routing System

Apr'25 - Jun'25

Delhi Public School Jabalpur

Live

- Built a **bus routing system** with **Python**, **DBSCAN**, and **Leaflet.js**, cutting route distance by **25%** for 23 buses serving 932 students.
- Ran **150+ simulations**, improving stop clustering and raising assignment accuracy by **15%** with **90% bus usage**.
- Developed an **interactive map tool**, speeding up planning by **30%** and aiding decision-making.

Ai Waqel - Research Engine for Lawyers

Mar'24 - Dec'24

Madhya Pradesh High Court

Live

- Developed **Ai Waqel**, an **AI-powered legal research tool** using the **Gemini API**, built for Smart India Hackathon 2024.
- Created an application tailored for **lawyers and legal professionals** to simplify case research and document analysis.
- Deployed and tested over **4 months** at the **Madhya Pradesh High Court**, validating real-world effectiveness and usability.

AWARDS AND ACHIEVEMENTS

- National CyberSheild Hackathon'25, Winner:** Developed a system to detect **Money Laundering Pattern** used GNN (Graphical Neural Networks).
- Oracle Acad Low Code Contest 2025, Winner:** Created Oracle Chat Engine for Oracle users, achieving **3000+ hits within 24 hours** using Oracle Tools, VM Instance Auto Scaling, and Oracle APEX.
- AICTE IDE Bootcamp 2024, Winner:** Promoted AI-based research engine for lawyers, tested at Madhya Pradesh High Court. Secured **350k INR funding** from IIIT Lucknow, AICTE, and MoE India.

TECHNICAL SKILLS

- Programming Languages:** C++, Python, Streamlit, SQL.
- Cloud & Technologies:** AWS (EC2, S3), Oracle Cloud (VM Instance, Oracle APEX).
- Tools & Software:** Git, GitHub, VS Code.
- Certifications:** Oracle Vector AI Global Certification, Cisco CCNA, Cisco Cybersecurity Essentials, Cisco Python Essentials.

EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2022-2026	Bachelors in Computer Science and Business Systems	Gyan Ganga Institute of Technology & Sciences, Jabalpur, Madhya Pradesh	8.6/10
2019-2021	10+2 Higher Secondary Education (CBSE), PCM	O.P Jindal School, Patratu, Ramgarh, Jharkhand	94%