

Harsh Yadav

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 Portfolio

EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech., IT	IIIT, Allahabad	7.8	June 2025

EXPERIENCE

- Software Engineering Intern (AI/ML)** *Jan 2025 – June 2025*
IIIT Allahabad Prayagraj, India
 - Engineered a security framework to protect DL model IP via invisible, non-destructive **watermarking**.
 - Used **SHAP** for model interpretability to embed watermarks in low-impact “sleep nodes” (**TensorFlow/Keras**).
 - Achieved **>95% watermark integrity** against attacks (e.g., fine-tuning) with no loss in model accuracy.

PROJECTS

- Smart Career Counselling & Prediction Portal | Future Rank** *Jan 2025 – Apr 2025*
Tools: Node.js, Express.js, MySQL, Python, React.js [G]
 - Architected a full-stack JEE prediction portal (**Node.js, React**) serving **500+** users with **>90% accuracy**.
 - Optimized backend APIs (**Node.js, Express**) and **MySQL** schema, reducing query latency by **40%**.
 - Improved prediction reliability by **35%** using synthetic data generated with a **Python** pipeline.
- AI-Powered Assistant for the Visually Impaired** *May 2025 – July 2025*
Tools: Python, Google GenAI APIs, LLMs, Raspberry Pi [G]
 - Built an AI assistant for visually impaired users with camera-based expiry-date reading and object localization.
 - Integrated a chatbot using **LLMs** and **Google GenAI APIs** for real-time camera-based text-to-speech.
 - Deployed on **Raspberry Pi**, achieving **92% text accuracy** and a **35%** reduction in navigation errors.
- TalkTrace | WhatsApp Chat Analyzer** *May 2025 – July 2025*
Tools: React.js, Flask, Pandas, Vercel, Recharts [G]
 - Built a chat analytics dashboard (**React.js, Flask**) with **50+ metrics** like sentiment analysis and heatmaps.
 - Used **Pandas** for data processing and **Recharts** for visualization, boosting engagement by **60%**.
 - Deployed on **Vercel**, handling **100+** chat analyses via a cloud-hosted **Flask** backend.
- Smart Summarizer | AI-Powered Text Summarization Tool** *Jan 2025 – Feb 2025*
Tools: React.js, Node.js, Express.js, OpenAI API, Tailwind CSS [G]
 - Developed a full-stack summarizer for text and PDFs using the **OpenAI API**.
 - Engineered a **Node.js** backend for **PDF parsing** and async API calls to ensure a responsive UX.
 - Designed a clean, responsive UI with **React.js** and **Tailwind CSS** for accessibility.

SKILLS

- Languages:** C++, Python, JavaScript, Java, SQL
- Frontend:** React.js, HTML, CSS, Tailwind CSS
- Backend:** Node.js, Express.js, Flask
- Databases:** MySQL, MongoDB
- DevOps & Tools:** Git, GitHub, Docker, Bash Scripting, Vercel, Netlify, Heroku, Render, Figma
- Coursework:** Data Structures & Algorithms, OOPS, DBMS, Operating System, Computer Networking, Machine Learning, Deep Learning, Probabilistic Machine Learning & Graphical Models, Cyber Security, Cryptography, Parallel and Distribution Computing
- Libraries & Frameworks:** Pandas, TensorFlow, Keras, Recharts

ACHIEVEMENTS

- CodeChef Starters 197 (Rated) – **Global Rank 99** (Jul 30, 2025)
- CodeChef Starters 196 (Rated) – **Global Rank 20** (Jul 23, 2025)
- CodeChef Starters 192 (Rated) – **Global Rank 18** (Jun 25, 2025)