

YASH RATHORE

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PROFILE

Aspiring Software Developer with experience in full-stack development, AI-driven applications, and NLP research. Skilled in building scalable systems, collaborating in national-level hackathons, and authoring independent technical research.

EDUCATION

DCRUST, Murtial <i>BTech in Computer Science Engineering</i>	2025 – 2028 <i>Haryana, India</i>
Delhi Skill and Entrepreneurship University <i>Diploma in Computer Engineering (CGPA: 7.78)</i>	2022 – 2025 <i>Delhi, India</i>
National Institute of Software and Information Technology <i>Diploma in Computer Applications (75%)</i>	2021 – 2022 <i>Delhi, India</i>
Kendriya Vidyalaya RRC Fatehgarh <i>Secondary School Certificate (70%)</i>	2021 – 2022 <i>Fatehgarh, India</i>

EXPERIENCE

Full Stack Developer Intern - OSPE <i>XZECT LABS PVT LTD</i>	June 2024 – Aug 2024 <i>Remote</i>
- Developed and enhanced features for client-facing applications, including an AI-powered chatbot . - Improved website performance, reducing load times by approximately 30% . - Performed code reviews and enforced coding standards for maintainability and scalability. - Used Git for efficient version control and team collaboration.	

PROJECTS

KHEL SETU	<i>React Native, Firebase, AI/ML – 2025</i>
- A collaborative group project for Smart India Hackathon 2025 focused on democratizing sports assessment through AI-driven video analysis . - Built modules for AI fitness test evaluation, secure uploads, cheat detection, and performance dashboards . - Contributed to AI workflow design, frontend development, and model integration . - Prototype Link: khelsetu.vercel.app	
MindfulSpace	<i>React Native, Firebase – Jan 2025</i>
- A React Native mental health app featuring an AI chatbot and curated wellness resources. - Project Link: mw-var3.vercel.app	
IMMERSIVE X	<i>HTML, CSS, JS, Firebase – May 2023</i>
- A platform showcasing VR products and innovations with an optimized user experience . - Project Link: immersivex.theyashrathore.in	
Study Stream X	<i>Python, SQL, AI – Sep 2023</i>
- A Windows application featuring AI plagiarism detection with an intuitive interface.	
Knowledge Bank	<i>HTML, CSS, PHP, JS – Aug 2023</i>
- Developed a dynamic educational platform offering personalized student resources. - Project Link: Knowledge Bank Website	

RESEARCH WORK

- **Transformers and Beyond: A Review of Key NLP Developments** — Authored an independent, comprehensive review paper analyzing major advancements in modern **Natural Language Processing (NLP)**. The paper synthesizes contributions across **transformer architectures (BERT, GPT, T5)**, **multilingual models (XLM-R)**, **explainable NLP (LIME, SHAP)**, **emotion and sentiment analysis**, **biomedical NLP (BioBERT)**, **instruction-tuned models (FLAN-T5)**, **multimodal learning (Flamingo)**, and **AI ethics**. It highlights core innovations, limitations, and **future research directions** for building robust, transparent, and inclusive NLP systems. [Read Paper](#)

TECHNICAL SKILLS

- **Languages:** Java, Python, JavaScript, C, SQL, HTML, CSS
- **Frameworks & Tools:** React Native, Firebase, TensorFlow Lite, Git, Linux
- **Core Areas:** NLP, Machine Learning, Full-Stack Development, DSA

ACHIEVEMENTS

- Cleared the Internal Round of Smart India Hackathon (SIH) 2025.
- Completed multiple cloud-focused courses under Google Cloud Jam.
- 2nd Prize in National Science Day Quiz Competition.
- A1 Level Certificate in Deutsch and Python Certification (Coursera).
- DSEU-SIDBI Super 30 Entrepreneurship Course Certificate.

LANGUAGES

- Hindi
- English
- Deutsch (A2 Level)

INTERESTS

- NLP, Cloud Computing, AI for Social Impact, Startup Ecosystems