

Yash Dogra

[Portfolio](#) | [LinkedIn](#) | [GitHub](#) | [Leetcode](#) | [Kaggle](#)

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SUMMARY

Computer Science undergraduate proficient in **Python** and **C++** with hands-on experience in **ML frameworks** for **NLP** and computer vision projects. Seeking internship opportunities to apply advanced **AI** techniques and web development skills to solve **real-world** problems.

TECHNICAL SKILLS

Languages : Python, C++, SQL, R
AI/ML Frameworks : TensorFlow, Keras, PyTorch, Scikit-learn, Hugging Face Transformers
Data & Analysis : NumPy, Power BI, Pandas, Matplotlib, OpenCV, NLTK
Dev Tools : **Source Control** — Git, GitHub · **IDEs** — VS Code, PyCharm · **Collaboration** — Google Colab · **Databases** — MySQL

EDUCATION

Thapar Institute of Engineering and Technology Patiala, Punjab
Bachelor of Engineering in Computer Science
CGPA: 8.11 2021 – 2025

DAV Public School Hamirpur, Himachal Pradesh
CBSE, Class XII
Percentage: 95.2 2020

PROJECTS

Text Summarization Python, Transformers, ROUGE [Source Code](#)

- Developed a text summarization tool using the **T5 Transformer** model and the **XLSum** dataset (Punjabi focus).
- Achieved **ROUGE-1 of 54.38** and **ROUGE-L of 53.57** post fine-tuning, reflecting strong summarization performance.
- Conducted human evaluation indicating natural-sounding summaries for over **80%** of test samples.

MapMitra React, Node.js, MongoDB, Leaflet [Source Code](#)

- Developed real-time campus navigation + e-rickshaw tracking with landmark-based **routing** and **multi-role** access.
- Reached **90%** ETA prediction accuracy and cut route computation **latency 40%** via **BFS** optimization + **Redis** caching.
- Secured platform with Google **OAuth 2.0**, JWT access/refresh tokens, and structured RBAC middleware.

Portfolio HTML5, CSS3, JavaScript, Three.js [Source Code](#)

- Built zero-build static portfolio with **WebGL particle system** (Three.js), **glass cursor refraction**, and interactive animations.
- Engineered custom cursor with **real-time page capture** (html2canvas) + GPU-accelerated shader distortion at **60 FPS**.
- Implemented **localStorage-synced** dark mode, parallax image system, and responsive layouts

POSITIONS OF RESPONSIBILITY

Head of Logistics and Operations Sep 2023 – Sep 2024
Girl Up Patiala

- Directed a team of **85+ members** to coordinate various events supporting women entrepreneurs and businesses focusing on women empowerment, feminism, and gender sensitivity.
- Oversaw the logistical planning and execution of events and workshops for **300+ students**, ensuring all necessary elements were in place for a successful outcome.

CERTIFICATIONS

• [IBM Data Science](#) | [IBM Generative AI](#) | [Google Cloud Skills](#) | [Google UX Design](#)

EXTRACURRICULAR

- Co-author: [Confusion to Clarity: Enhancing Navigation and Transport Systems in Educational Environments](#) - 8th International Conference on Innovative Computing and Communication (**ICICC-2025**).
- Gold Medal - Inter-Departmental Football: Team CSE; Silver Medal - Inter-Departmental Chess.