

GURSEWAK SINGH

Senior Computer Science Student

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EDUCATION

Thapar Institute of Engineering and Technology, Patiala

2021 – 2025

BE in Computer Science and Engineering

CGPA: 7.61

GTB Public School, Faridkot

2020 – 2021

CBSE (Class XII)

Aggregate: 95.8%

Dasmesh Public School, Faridkot

2018 – 2019

CBSE (Class X)

Aggregate: 96.6%

TECHNICAL SKILLS

Programming Languages: C/C++ (proficient), JavaScript, SQL, Python

Web Development: HTML/CSS, Bootstrap, ReactJS, GSAP, LocomotiveJS

Tools/Technologies: Git, GitHub, VS Code, AutoCAD, Arduino, MS Office (Word, Excel, PowerPoint)

CS Fundamentals: OOPS, DBMS, DSA, OS, Software Engineering

PROJECTS

FitLytics | Python, TensorFlow, Arduino Nano, BLE | [Link](#)

Mar'24 - Present

- Engineering a sophisticated **exercise accuracy detection system** utilizing smart wearables, **enhancing performance metrics** and **mitigating injury risks** through precise exercise monitoring and analysis.
- **Integrated Arduino with IMU sensors** to capture high-fidelity data, and **applied advanced machine learning algorithms** including RNN, SVM, and Random Forest for comprehensive data analysis and actionable insights.

CourtKicks | HTML, CSS, JavaScript, GSAP | [Link](#)

Jun'24

- **Developed and deployed** a dynamic, **user-centric website** that **systematically categorizes sneakers** based on individual preferences and **delivers real-time updates** on basketball sneaker trends, enhancing user satisfaction.
- **Optimized the user interface** with a **responsive design framework**, ensuring **seamless cross-platform performance** and **user engagement**, **boosting accessibility and usability** across all devices.

Portfolio | HTML, CSS, JavaScript, GSAP, Locomotive JS | [Link](#)

Jun'23

- **Designed and developed** a **high-performance portfolio website** to **showcase technical skills and projects**, **enhancing the presentation and professional visibility** of my work in the field of computer science.
- **Leveraged contemporary web technologies** to ensure **optimal performance** and a **fluid user experience** across both mobile and desktop platforms, demonstrating a strong command of front-end development principles.

POSITIONS OF RESPONSIBILITY

Freshman Captain, Basketball Team

2021 – 2022

Thapar University, Patiala

- Led the freshmen team to **3 gold medals** in intra-university games **over span of 1 year**; managed team dynamics, training, and game strategies.

Executive Committee Member, Saturnalia

2022 – 2024

Thapar University, Patiala

- **Successfully planned, publicized, and executed** North India's **largest annual techno-cultural fest**, driving creativity, strategy, and overall event coordination.

Pipe Major, School Band

2016 – 2019

Dasmesh Public School, Faridkot

- **Commanded the district's top-ranked bagpipe ensemble** as **Pipe Major** at **national day parades** and various competitions, contributing to top performances and accolades.

ACHIEVEMENTS / EXTRA-CURRICULAR ACTIVITIES

- Secured **AIR 86** in the **15th National Science Olympiad**.
- Cleared Stage-1 of **National Talent Search Examination 2019**.
- Won **Gold** in basketball at **Ran-Neeti, IIT Mandi 2022**, and **Silver** at **URJA, Thapar University 2023**.
- Attained **1st Division** in Tabla playing for **three consecutive years** at **Sangeet Bhushan, Faridkot**.
- **Led the school band** to **2nd place** at the **International School Student's Carnival** held at Punjab Degree College, Faridkot.