

# ISHITA ARORA

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## Education

<b>Thapar Institute of Engineering and Technology</b> <ul style="list-style-type: none"><li>Computer Science and Engineering (4<sup>th</sup> Year)   CGPA: 8.16</li></ul>	<b>2021 – 2025</b>
<b>Delhi Public School Ghaziabad</b> <ul style="list-style-type: none"><li>CBSE (Class XII), Aggregate: 99%</li></ul>	<b>2020 - 2021</b>
<b>Delhi Public School Ghaziabad</b> <ul style="list-style-type: none"><li>CBSE (Class X), Aggregate: 97%</li></ul>	<b>2018 - 2019</b>

## Skills

**Computer Languages:** C++ | C | Python | HTML | CSS | JavaScript

**Software Packages:** Git | MySQL

**Languages Known:** English (SRW), Hindi (SRW)

## Projects

<b>Exercise Accuracy Detection Using Smart Wearables</b> <p><i>Developed a reliable solution using smart wearables to assess exercise positions.</i></p> <ul style="list-style-type: none"><li>Hardware involves working with Arduino and addressing challenges like algorithm generation</li><li>Some of the algorithms used include SVM, Random Forest, and RNN</li><li>Tech Stack used: Python, Kotlin, Pandas, Tensorflow, Keras</li><li>Frameworks and IDE: Arduino, Android Studio, BLE, SQLite</li></ul>	<b>July'24</b>
<b>Ray Caster System</b> <p><i>Created a rendering engine that implements 3D visualization techniques to render 2D maps.</i></p> <ul style="list-style-type: none"><li>The project leverages OpenGL, renowned for its versatility and efficiency in rendering 2D and 3D graphics</li><li>Achieves real-time performance, crucial for simulating dynamic environments and responsive user interactions</li><li>Tech Stack used: C++, OpenGL, Visual Studio</li></ul>	<b>May'24</b>
<b>Face Detection System</b> <p><i>A face detection system applying the basics of computer vision.</i></p> <ul style="list-style-type: none"><li>The project leverages OpenGL, renowned for its versatility and efficiency in rendering 2D and 3D graphics</li><li>Preprocessing includes converting images to grayscale and applying techniques like edge detection and feature extraction</li><li>Tech Stack used: Python, OpenCV, Numpy, HaarCascades, Visual Studio</li></ul>	<b>April'24</b>
<b>Portfolio</b> <p><i>Made a basic portfolio website.</i></p> <ul style="list-style-type: none"><li>A basic portfolio website applying the basics of front-end development</li><li>Tech Stack used: HTML, CSS, JavaScript</li></ul>	<b>June'23</b>
<b>Robotic Arm</b> <p><i>A robotic arm that can pick items from one place and put them in another place.</i></p> <ul style="list-style-type: none"><li>Used basics of robotics and introductory know-how of Arduino Programming</li><li>Tech Stack used: Arduino</li></ul>	<b>May'22</b>

## Extracurricular Achievements and Certifications

- Part of the Organizing Committee of the Biggest Annual Techno-Cultural Fest of North India – SATURNALIA
- Kaggle 2X Notebook Expert
- Member of the School Cabinet
- Participated in various Olympiads at the school level
- CISCO – Cyber Security Essentials, Create Interactive Dashboard with Python (Coursera), Building Custom Regional Reports with Google Analytics (Coursera), Analyze Stock Data using R and Quantmod Package (Coursera), Data Visualization with Plotly Express (Coursera), NLP with Classification and Vector Spaces (Coursera), NLP with Probabilistic Models (Coursera)