



ARYAN SHARMA

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Github: [@aryansharma](#) | [Portfolio](#) | [Codeforces](#)

Education

Indraprastha Institute of Information Technology, Delhi

B.Tech Computer Science & Engineering
2021 – 2025(Present)

CGPA: 7.17
(after 3rd year)

Sachdeva Global School, Dwarka sec 18 A, Delhi

CBSE Class 12, PCM & CS
2020 – 2021

Percentage: 87.8
(best 5)

Sachdeva Global School, Dwarka sec 18 A, Delhi

CBSE Class 10
2018-2019

Percentage: 88.6

Skills

Expertise Area Data structure & Algorithm, Competitive programming, Web developer.

Programming Language C++, C, Python, Java, MySql

Tools and Technologies MySQL, Html, CSS, Figma, IntelliJ idea, VS code, TensorFlow, Keras, numpy, pandas, matplotlib.

Technical Electives Data Structure & Algorithm, Advanced Programming (OOPS) , Operating System , Algorithm Design and Analysis, Database Management, Computer Networks & Machine Learning.

Work Experience

Data Science & Machine learning

Dignique Tech labs & iHub at IIT Roorkee.
Guide: Bipul Shahi

(3 June, 24 –
Ongoing)
Individual

- Hands-on practice with real-world datasets and tools. Machine learning concepts and techniques, & data manipulation with NumPy and Pandas, and data visualization with Matplotlib.

RISC-V and SIMD Integration (Independent Studies)

Guide: Sujay Deb [REPORT](#)

(Aug' 23-Dec'23)
Individual

- Implemented SIMD instructions with Arm-Neon for efficient multimedia processing and ECG data analysis, using the MIT-BIH Arrhythmia Database for rapid heart rate monitoring.

Projects

Glaucoma Detection and Feature Analysis Model (Machine Learning Project)

(Jan' 24 -April' 24)
Team Size-3

Guide: Anubha Gupta

Tech Stack: Python, Tensorflow, Sklearn

Worked on a model which classifies No referable glaucoma (NRG)
Referable glaucoma (RG) in EyePACS image dataset.

- Binary classification of referable glaucoma and no referable glaucoma & Multi-label classification of ten additional features

InstaCab : (Database management)

(Aug'23-Dec'23)
Individual

Guide: Vikram Goyal

Tech Stack: python, mysql

- Created a working cab booking application with User and Driver's interface.
- Build using python, SQL with real time interactions, implemented embedded and OLAP queries.

TCP Stream Reassembler: (Computer Network Project)

Guide: Rinku shah

(Aug'23 -Dec'23)
Individual

Tech Stack: C language

- Developed a TCP reassembly tool that reconstructs data streams from fragmented TCP packets.
- The project includes components such as a receiver wrapper, a byte stream handler, and TCP helper functions to ensure efficient and accurate reassembly of TCP data.

Awards and Achievements

- 2nd Position in "ZPC-26" (intra college maths competition) .
- 1400+ rating at codeforces.
- 400+ problems solved across platforms(code studio, leetcode, codeforces).

Positions of Responsibility

- Active member & contributor at Évariste (Maths) Club.
- Associated & contributor with Community work foundation.

Interests and Hobbies

- Playing chess & cricket.

Declaration: The above information is correct to the best of my knowledge.

Aryan Sharma

Date: 10 August 2024