

# ARYAN SHARMA

## ACADEMIC DETAILS

Examination	University	Institute	Year	CGPA/%
UnderGraduation	IIT Delhi	IIT Delhi	2025	9.84
Intermediate/+2	CBSE	Ramsheth Thankur Public School,Kharghar	2021	95.6
Matriculation	CBSE	Poddar Brio International School	2019	94.2

## SCHOLASTIC ACHIEVEMENTS

- Pursuing **B.Tech in Computer Science And Engineering** [‘25]
- Awarded **Endowment Scholarship** based on excellence in academics in **academic year 21-22** and **22-23** [‘21 ‘22]
- Secured **All India Rank 79** in JEE Advanced and **99.93 Percentile** in JEE Main among 1.19 million students [‘21]
- Achieved **World Rank 11** in **Online Physics Olympiad(OPhO)(team event)**. [‘21]
- Secured **All India Rank 54** in IOQP Part-II(INPhO) and **All India Rank 37** in IOQC Part-II(INChO). [‘21]
- Qualified national stage I & II of Physics and Chemistry Olympiad and invited to camp of **Physics and Chemistry Olympiad** for selection process(**final stage**) to represent **India** in **International Olympiads**. [‘21]
- Secured **All India Rank 178** in KVPY SX(out of **150 thousand**) and **All India Rank 455** in KVPY SA(out of **50 thousand**),received the **Kishore Vaigyanik Protsahan Yojana (KVPY) fellowship** by Government of India. [‘21 & ‘20]
- Placed among **top 350** selected for **Indian National Maths Olympiad** and secured **Region Rank 10** in **Regional Maths Olympiad(Maharashtra and Goa Region)**. [‘20]
- Placed among **top 350** selected for **Indian National Astronomy Olympiad** [‘20 ‘21]

## INTERNSHIPS

- **Educator | Uncademy** [Dec’21-Feb’22]
  - Mentored students preparing for **JEE Advance**.

## KEY PROJECTS

- **Minimising boolean functions and K-map Solver** (Course Assignment) [‘22]  
*Prof. Preeti Ranjan Panda | Department of Computer Science, IIT Delhi*
  - Used **Quine-McClusky** method to expand each minterm to maximum possible region(in terms of K-map) and realised the results using GUI created for representation of K-map.
  - Used two method two achieve the end result,**Petricks method**(which provides the **optimum** result in all cases) and a **heuristic method** which runs in polynomial time but provides sub-optimal results in some cases.
  - Compared the results between the two algorithms using **GUI(K-map)** developed.
- **Speed Control of DC motor** (Course Project) [‘22]  
*Prof. Abhishek Dixit | Department of Electrical Engineering, IIT Delhi*
  - Implemented DC motor speed control circuit on breadboard using **NE555P** timer and **BJT(TIP122)**.
- **Sudoku Solver** (Course Assignment) [‘22]  
*Prof. Sayan Ranu | Department of Computer Science, IIT Delhi*
  - Developed a program to solve sudoku using a **recursive algorithm** and **backtracking**.
- **Line Follower** [‘22]  
*Robotics Club | IIT Delhi*
  - Implemented the circuit of line follower robot on **Arduino board** and wrote the programm of the circuit in **C**.

## TECHNICAL SKILLS

- **Programming and Hardware Description Languages:** C, C++, Python, VHDL.
- **Software:** Arduino, Autodesk Inventor, Latex, MS Office

## KEY COURSES UNDERTAKEN

- Completed Courses** Introduction to Computer Science, Introduction to Electrical Engineering, Linear Algebra and Differential Calculus, Introduction to Calculus, Electromagnetism and Quantum Mechanics, Engineering Visualisation and Communication, Engineering Mechanics, Introduction to Chemistry
- Ongoing Courses** Probability and Stochastic Processes, Data Structures and Algorithms, Discrete Mathematical Structures, Digital Logic and System Design, Microeconomics Principles Of Electronic Materials

## POSITION OF RESPONSIBILITIES

- **VICE CAPTAIN** | Jwalamukhi House, IIT Delhi [Aug '22-now]
  - Conducted various intra hostel sports tournaments and team selection process for the house.

## COMMUNITY SERVICE & VOLUNTEERING

- **Design Project to solve the problem of Social Media Addiction in young students** [Dec '21 - Feb '22]
  - Conducted **surveys** via google forms with a reach to **100+** students.
  - Conducted personal **interviews** of **20+** students.
  - Conducted secondary research through various **research articles** and **newsletters**.
- **Pathfinder book solutions** [April '20 - now]
  - Contributed **solutions to 80+ problems** for a project which aims at compiling solutions to the highly recommended book **Pathfinder for Olympiad and JEE Advanced**.
- **Guiding JEE aspirants** [Oct'21-now]
  - Partnered with **Unacademy(edtech platform)** to guide students about my exam strategies and methodologies adopted during preparation.
  - Partnered with **Allen Career Institute** for live questions answer sessions, with participants from grade 9 till 12, with questions about the JEE preparation journey.
  - Using platforms like **Quora(44.3K Content views)**, **Discord** to personally guide aspirants about very specific and personal issues faced by aspirants.
- **Fizika(International Physics Examination)** [August - September '21]
  - Exam sponsored by GRAMOLY, AoPS, Overleaf and many more with prizes worth 15000\$+, over 3000+ participants and some of the top educators involved.
  - Proposed **5 Problems** for the competition out of which **1 Problem** got selected for the examination.
- **Science Project** ['14]
  - Investigatory Project on **Paraboloid Reflector** and it's working principle.

## EXTRA CURRICULAR

- Member of **Table Tennis** team of Sports Club and represented the club at **district level**. ['18]
- **Brown Belt in karate** in OGASAHARA-HA SHITO RYU style. ['14 - '16]
- Formally trained in playing **Keyboard**. ['14]
- Member of School **Chess Team** and participated in **inter-school competition**. ['14]
- Selected to represent School for **All India Inter-AECS** quiz. ['14]