

YASHICA PATODIA

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EDUCATION

Degree	Institute / Board	Year	CGPA / %
B. Tech in Computer Science and Engineering	IIT Kharagpur	2019 - 2023 (Expected)	9.38 / 10 📈
Indian School Certificate	Delhi Public School - ISC	March, 2019	98.25 % 📈
Indian Certificate Of Secondary Education	Delhi Public School - ICSE	March, 2017	97.6% 📈

EXPERIENCE

Contributor | GirlScript India Foundation Sep'20

- Attended the **GirlScript India Virtual Summit**, which is a non-profit organization and promotes diversity in technical education 📈
- Participated in one day **Online Hackathon** and online workshops and sessions. 📈

Lecturer | Open Source Workshop | IIT Kharagpur Feb'20

- Designed and Lectured an Intermediate Open Source Programming Workshop for the students of IIT Kharagpur. It aims at promoting and maintaining open source culture.

Developer | KWoc | Kharagpur Winter Of Code Dec'19

- Designed and developed a shooting based game **ColorWow** which implemented **pygame** and principles of OOP 📈
- Contributed algorithms used in competitive programming 📈

Winter Workshop | Artificial Intelligence and Robotics Dec'19

- Developed and programmed an **arduino** powered bot to move according to the instruction given by the user. The input was given in **OpenCv** and implemented **Image Processing**. 📈

PROJECTS

Socket Programming and Multithreading 🌐 KRSSG Task | Jan'20

- Created **three scripts** as client, minion, server .
- Used **TCP** to send and receive data and implemented it using the **socket module** available in **python**.
- Implemented **Multithreading** using the **threading module** available in **python** .

Finite State Machine Of a Lift System 🌐 KRSSG Task | Feb'20

- Created an optimal **Two Lift - One Button** system .
- Implemented **FSM** and principles of **OOP** in **python**.
- Implemented **Dynamic Input** using **socket programming** to send and receive data from the client side to the lift system side .

Path Planning using RRT* Connect and running on ROS Turtlesim 🌐 Feb'20

- Implemented the **RRT*** version of **RRT Connect** .
- Implemented **ROS** , **File Handling** and **PID** for path following of turtlesim and for dynamic path planning.

AWARDS and ACHIEVEMENTS

- Secured **TOP 5** rank among all the participants of **Overnite** and **Source Code** organized by **Kshitij**, IIT Kharagpur which is a night long ACM certified programming event based on competitive coding in C, C++ and Java, Asia's **Largest Techno-Management fest**. Jan'20
- Secured a rank of **2963 (Round E)** among more than 13,000 participants of **Google KickStart**. Aug'20
- Secured a rank of **1380** among more than 33,000 participants of **Facebook Hacker-Cup** and qualified for Round 1. Jul'20
- Acquired a **top 1.22%** rank in JEE Advanced-2019 with an **AIR 821** and **top 0.40%** rank in JEE Mains-2019. 📈 Jul'19
- Secured **Rank 2** among more than 10,000 students of the Delhi Public School Megacity , Kolkata in the **ISC Examination** and **TOP 5** in West Bengal. March'19
- Awarded by esteemed **Chief Minister of West Bengal** for exceptional performance in **ISC Examinations**. 📈 Jun'19
- Secured **Rank 4** among more than 11,000 students of Delhi Public School Megacity , Kolkata in the **ICSE Examination** and **TOP 10** in West Bengal. March'17

SKILLS and EXPERTISE

Languages/ OS : C, C++, Python, MySQL, Java, Javascript(Node.js), LaTeX, Golang, Windows, Ubuntu

Tools : Git, VSCode, Sublime Text, Vim

Libraries/Frameworks : C++ STL, NumPy, Pandas, Matplotlib, OpenCV, ReactJS, Flask, Django , BeautifulSoup

POSITIONS of RESPONSIBILITY

Core Team Member at KOSS, IIT Kharagpur Feb'19 - Present

- Organised and Lectured on **Open Source Programming Workshop** for the students of IIT Kharagpur.

Debator at Debating Society, IIT Kharagpur Aug'19 - Jan'20

- Organised and debated on the pressing issues of India and the world as a whole for the betterment of the society.

Volunteer at National Service Scheme, IIT Kharagpur Aug'19 - Present

- **Taught** the students of a primary school during weekends in the Porapara District of West Bengal.
- **Part of Annual NSS Camp** where we built a road and dams in the Raghunathpur District of West Bengal.
- **Lecturer** at a village in the Porapara District of West Bengal on female empowerment and necessity of education (especially for young girls) .