



Saiyam Arora
 UG (II Year II Semester)
 B.Tech. (Electrical Engineering)
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 Registration No: 21112092/2024



Area of Interest

Data Structure and Algorithms, Problem-Solving, Software development, Artificial Intelligence, Badminton

Education

Year	Degree/Examination	Institution/Board	CGPA/Percentage
2023	B.Tech. 2nd Year	Indian Institute of Technology, Roorkee	8.522
2021	Intermediate (Class XII)	SD Public school (CBSE Board)	95.60 %
2019	Matriculate (Class X)	St Thomas School (ICSE Board)	95.20 %

Projects

Path Planning using Reinforcement learning | Models And Robotics Section, IITR March 2023 - April 2023

- Trained an agent using Q-learning and DQNs to efficiently navigate complex environments with obstacles.
- Leveraged Bellman's equation in the design and implementation of reinforcement learning algorithms to optimize agent

Diagnostic-i An Artificial Intelligence based Medical Diagnostic tool | ShARE,IIT Roorkee January 2023 - February 2023

- Worked closely with teammates specialising in React, Figma, OpenCV, XGBoost, ReactJs and backend technologies.
- Worked on training machine learning and CNN models with more than 60% accuracy.
- Played a key role in advancing the diagnostic capabilities of the platform through deep learning expertise.

Prediction and Analysis of DEM-simulation results | Chemical Department, IIT Roorkee December 2022 - February 2023

- Conducted regression-based prediction and analysis of DEM-simulation results in a vibrated packed bed system.
- Worked on a cord dataset comprising 1000+ rows and 12 columns and extracted valuable insights such as SMI, coordination number, and orientation angle of spherical and non-spherical particles
- Contributed to research and development efforts aimed at optimising packed bed systems.

Awards / Scholarships / Academic Achievements

- Secured 99.919 percentile in JEE Mains among 1.2Million aspirants.
- Scored 67294 points in google hash code 2022
- Runners up in Prahar-Intra Bhawan Badminton Tournament, Rajendra Bhawan (2022)
- Winner in Vidroh- Intra bhawan Badminton Tournament, Govind Bhawan (2023)
- 3 time winner, Yamunanagar District Badminton Championship
- ICSE Zonals Badminton Championship Winner
- Qualified for the Main Draws of Haryana Open State Badminton Championship (Boys Doubles U-15)
- Super Genius award in class 12th from SD Public School, Jagadhri

Skills

Computer languages C++, Python
 Additional Courses Macro&Micro economics Supervised Machine Learning (online)

Positions of Responsibility & Extra Curriculars

Additional Secretary | Electrical Engineering Student's Society, IIT Roorkee September 2022 - Present

- EESS is the official student body of UG and PG students of the Electrical Department, IIT Roorkee
- Contributed to the conduction of various Talks, Podcasts, and events at the Electrical Engineering Department.

Competitive Programming | Online Judges December 2022 - Present

- Active member on various Online Competitive Programming Judges like Codeforces, InterviewBit, and Leetcode.
- Maximum rating of 1305 on Codeforces (handle: Saiiii09)

Vice President | Geek Gazette June 2023 - Present

- Geek Gazette is the official body of IIT Roorkee publishing semesterly technology-related magazines.
- Collaborating with a team of designers, and participated in brainstorming sessions, ideation, and concept development.
- Effectively communicated and collaborated with cross-vertical teams, ensuring seamless magazine-making process.

Learning Unit Manager | Data Analytics, ShARE IIT Roorkee May 2022 - Present

- ShARE is the official Consultancy, Analyst and Product Group of IIT Roorkee providing comprehensive training programs.
- Mentoring a team of 7 junior members with Data Analytics skills in the ShARE training program
- Developed a curriculum covering data preprocessing, statistical analysis, machine learning, and data visualization tools

References

Abdul Saleem Mir
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 Indian Institute of technology Roorkee
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Anshu Anand
 Assistant professor
 Indian Institute of technology Roorkee
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