



Alka Kumari

UG (III Year I Semester)
B.Tech. (Biosciences and Bioengineering)
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Registration No: 20111008/2023

Indian Institute of
Technology
Roorkee



VERIFIED

Area of Interest

Data structures and algorithms, Competitive programming

Education

Year	Degree/Examination	Institution/Board	CGPA/ Percentage
2022	B.Tech. 2nd Year	Indian Institute of Technology, Roorkee	7.742
2019	Intermediate (Class XII)	College of commerce, arts and science (BSEB)	84.00 %
2017	Matriculate (Class X)	Himalayan public school (CBSE)	10.000

Projects

BSBE website redesign | IIT Roorkee

December 2021 - Present

- Working on this project to redevelop the official website of Biosciences and bioengineering department of IIT Roorkee.
- The whole system is installed on AWS and tech stacks used to develop web pages are HTML, CSS and JavaScript on WordPress using Elementor PRO.

Predictive modelling and analysis | IIT Roorkee

September 2021 - October 2021

- Researched on the structure of putative vanillate O-demethylase oxygenase from FASTA sequence with the application of homology modelling of the given sequence.
- Used software packages like PyMOL, WinCoot to study the effects of the interaction to create a report on the structural and chemical changes.

Typing speed calculator | IIT Roorkee

January 2021 - February 2021

- Developed a program to test the typing speed of users.
- Coding was done in python and used libraries like pygame, pyjokes to enhance the functionalities of the program .

Skills

Computer languages	C++ , Python , HTML, CSS
Software Packages	Visual studio code , Pymol , Wincoot, Bootstrap ,
Languages Known	Hindi(SRW) , English(SRW)

Positions of Responsibility & Extra Curriculars

Participant | SDSLabs

January 2021

- Participated in a team of 3 members at syntax error hackathon organized by IIT Roorkee to develop program .
- Developed a user friendly chatbot using python to provide all information about our campus and nearby areas.

Deputy Cell Secretary | Women empowerment , NSS

January 2021 - Present

- Lead a team of 18+ members to organize seminars and workshops to empower women and to make them aware about their rights and role.
- Worked on breaking the taboos to promote entrepreneur inside women of Meerut district from training process, to providing sponsors and online market to their small-scale business.
- Actively participated in volunteering to social activities like blood donation, road-safety awareness, proper hygiene maintenance during COVID-19 organized by the cell in first year.

Dramatics section | Cultural Council

May 2021 - Present

- Participated in stage plays, street plays and mime performed by the section, have been member of production and management crew for all other plays.
- Promoted Performing Arts- conducted workshops, organized Friends of section to promote aspects of theatre across campus.

References

Debabrata Sircar

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IIT Roorkee
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Shri. Ram Yadav

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