

Shreya Sharma

LinkedIn: <https://www.linkedin.com/in/shreya-sharma-a2526881/>

GitHub: <https://shreya-droid.github.io/>

Email : shreya_s@iitr.ac.in

Mobile : +91-9997063438

EDUCATION

- **Indian Institute of Technology Roorkee (IIT-R)** Uttarakhand, India
PhD. in Computational Biology *July 2023 - Present*
- **Indian Institute of Technology Jodhpur (IIT-J)** Rajasthan, India
M.Tech. in Biosciences and Bioengineering; CGPA: 9.00/10.00 *Aug 2021- June 2023*

SKILLS SUMMARY

- **Languages:** Python, R, Matlab, SQL, Unix scripting, PHP, HTML
- **Wet Lab Skills:** Bacterial Cell Culture, PCR, DNA/RNA Isolation, Gel Electrophoresis

EXPERIENCE

- **IIT Roorkee (IIT-R)** Uttarakhand, India
Teaching Assistant *Aug 2023 - Dec 2023*
Course: Computational Biology (BE-305); Instructor: Dr. Devesh Bhimsaria
- **IIT Jodhpur (IIT-J)** Rajasthan, India
Teaching Assistant
 - **Course 1:** Introduction to Bioengineering; Instructor: Prof. Mitali Mukerji *Nov 2022 - Jan 2023*
 - **Course 2:** Systems Biology; Instructors: Dr. Dipanjan Roy and Dr. Pankaj Yadav *Jan 2023 - May 2023*
 - Supported classroom instruction and student engagement alongside the primary faculty.
- **IISER Thiruvananthapuram** Kerala, India
Project Assistant; Supervisor: Dr. Sabari Sankar Thirupathy, Assistant Professor *Sep 2020 - Aug 2021*
 - Conducted bacterial genome analysis for gene strand-bias: data preprocessing, scripting in Python, report generation, and leveraging HPC infrastructure.

HONORS AND AWARDS

- Institute MTech fellowship 2021-2023 at IIT Jodhpur funded by Ministry of Education (MoE), Government of India
- Qualified GATE (Biotechnology) in 2021
- Qualified IIT-JAM (Life Sciences) with AIR-400 in 2016

CONFERENCES

- Computational Biology Conference, 2025 at RCB Faridabad, from February 19 to 21, 2025.
- Symposium on Big Data Algorithms for Biology 2025 at IISc Bangalore, from May 31 to June 1, 2024.
- Participated in "Next-gen AI: Inspiration from Brain Science (NAiBS)" at IIT Jodhpur, from January 26 to 28, 2023.

PUBLICATIONS

- Strategic design of a multi-tier database for class A β -lactamase BlaC variants of M. tuberculosis: advancing the fight against antibacterial resistance. K. C. Ananth Kumar, Adwaita Nair, **Shreya Sharma***, Deepika Singh, Shivam Yadav, Devesh Bhimsaria, Sebanti Gupta, Saugata Hazra (2025). *The Journal of Antibiotics*. DOI: 10.1038/s41429-025-00862-3
- Origin, evolution, and maintenance of gene-strand bias in bacteria. Malhar Atre, Bharat Joshi, Jebin Babu, Shabduli Sawant, **Shreya Sharma***, T Sabari Sankar (2024). *Nucleic Acids Research*. DOI: 10.1093/nar/gkae155

REFERENCES (MENTORS)

- Dr. Devesh Bhimsaria, Assistant Professor, Indian Institute of Technology Roorkee (IIT-R), Uttarakhand, India. Email: devesh.bhimsaria@bt.iitr.ac.in; Tel: +91-1332-285011
- Dr. Mitali Mukerjee, Head of the Department, Indian Institute of Technology Jodhpur (IIT-J), Rajasthan, India. Email: mitali@iitj.ac.in; Mob: +91 9811288052.
- Dr. Sabari Sankar Thirupathy, Assistant Professor, Indian Institute of Science Education and Research (IISER), Thiruvananthapuram, Kerala. Email: sabari@iisertvm.ac.in; Mob: +91 8870858750.