

RITHIK KUMAR

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EDUCATION

BTECH. Biotechnology	2021-25	Thapar University, Patiala	8.12 CGPA
AISSCE/CBSE (Class XII)	2019	Delhi public school, Nashik	89.25%
AISCE/CBSE (Class X)	2017	Army public school, Jammu cantt	10 CGPA

INTERNSHIPS

Research Internship in collaboration with ICMR at Thapar university (June 2023 – Present)

- Engineered a ground breaking portable device which will **non-invasively detect** the lung cancer.
- Reducing the diagnostic and detection cost by **80 percent**.
- Collaborated with the team and worked extensively on biotech framework to integrate and optimize the biomarker with the technology.

ACADEMIC PROJECTS

Devised python code for DNA Melting temperature (python, bioinformatics databases)

- Accurately calculate DNA melting temperature up to **22 nucleotide** bases using established computations.
- Demonstrated functionalities to handle various DNA sequences, including single-stranded, double-stranded, and mixed sequences ensuring versatility and applicability.

Synthesis of Bioplastic using Human Hair (Research, Analysis, Biotech)

- Optimized an innovative method to create a biodegradable plastic alternative using discarded human hair sourced from hair salons.

ACADEMIC ACHIEVEMENTS AND AWARDS

Leadership and management Award by Dean

- For successfully Heading the institution's student council consisting of **1000+ alumni** and organized a variety of interactive sessions and events along with carrying out administrative activities.

Appreciation Award by NGO

- For creating a social impact by leading a **team of 50+member** strategically and deliver the best out of human resource for society welfare.

POSITIONS OF RESPONSIBILITY

Executive board member (Student Head): Alumni Relations Cell (ARC), Thapar (August 2023 - Present)

- Recruited and mentored an executive team of **5+ department heads**.
- Designed and implemented multifaceted initiatives to reconnect alumni with their alma mater, including organizing reunions, alumni meet-ups.
- Facilitated **10+ alumni meet** in India, Canada, US and the UK.

Academic Consultant: Pratigya NGO

(May 2022 - June 2023)

- Recruited and mentored a potent team of volunteers for academic excellence.
- Boosted and refined the interview collection rate by optimising the interview process, collecting **50+ interviews**.
 - Successfully increased the academic results from **68% to 87%** passing rate. (**3 students with above 90%marks**)

Research Analyst (Thapar institute counselling cell)

(January 2022 - July 2022)

- Prepared Analysis report of **15+ student** with diverse branches for their decision-making and behavioural patterns.
- Conducted in-depth qualitative and quantitative research on prevalent mental health issues on **36 students**.

EXTRA-CURRICULAR ACTIVITIES AND ACHIEVEMENTS

- 1st runner up at intercollege badminton tournament
- Featured as top 3 singer in College Fest.
- Participated in clothes and stationaries donation camp for school of blind and deaf children Patiala.

OTHER INFORMATION

Skills: C, Python, Biotechnology, SQL, MS Office, Management, Data Analysis, Research, Statistics, Finance.

Interests: Public Speaking, Debating, Quizzing, Reading Self-Help books, Badminton, Chess.