Aniket Mishra

BTech Student

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Employment

Aug 2025 – Present 2025 **Teaching Assistant - Discrete Mathematics**, *IIT Gandhinagar*, IIT Gandhinagar

May 2025 – July 2025 **Student Intern**, *CRYSPEN*, Remote Work
My work here was on Challenge #15 of *Verify Rust Std*, and it led me to find a bug in the Rust core, which we also *fixed*.

Education

Aug 2023 – Present **BTech in Computer Science and Engineering**, *IIT Gandhinagar*, Gandhinagar, India

Projects

December 2024 – Present **Investigations into Automated Theorem Proving and Verification**, *Vaishnavi Sundararajan*, IIT Delhi

August 2024 – July 2025 **Timing Side Channel Leak Analysis**, *Abhishek Bicchawat*, IIT Gandhinagar
We have written a conference paper for this work, which is currently under review.

May 2025 – Present **Physical Implementation of the Lambda Calculus**, *Collaborative Effort*, IIT Gandhinagar

Positions of Responsibilities

Oct 2024 – Present **Club Secretary**, , *AMBDA. - A PL Hobby Group*, IIT Gandhinagar

May 2024 – April 2025 **Council Member**, *Technical Council*, IIT Gandhinagar

May 2024 – April 2025 **Organising Team Member**, *NYASA*, IIT Gandhinagar

September 2023 – April 2024 **Teaching Volunteer**, *NYASA*, IIT Gandhinagar

May 2024 – Nov 2024 **Senior Team Member - Open Day Research Showcase**, *AMALTHEA*, IIT Gandhinagar
Here I was responsible for managing CS Research exhibits.

Conferences and Workshops

July 2025 **Formal Methods Update Meeting - Speaker**, *DAIICT*, Gandhinaagar, Gujarat, India
The content of my talk is available *here*.

February 2025 **Indian Conference on Logic and its Applications - Participant**, *ISI Kolkata*, West Bengal, India

December 2024 **Foundations of Software Technology and Theoretical Computer Science - Volunteer**, *IIT Gandhinagar*, Gujarat, India

December 2024 **Winter School on Formal Verification and Program Synthesis - Participant**, *IIT Delhi*, Delhi, India

August 2024 **Opportunity Open Source Conference - Participant**, *IIT Kanpur*, Uttar Pradesh, India

References

- **Prof. Neeldhara Misra** *Smt. Amba and Sri. V S Sastry Chair, Associate Professor Indian Institute of Technology Gandhinagar* Email ID
- **Prof. Abhishek Bicchawat** *Assistant Professor Indiant Institute of Technology Gandhinagar* Email ID

Areas of Interest

Programming Language Theory, Programming Language Design and Implementation, Formal Verification, Software Models, Proof Assistants, Systems Design

Technical Skills

Rocq, LEAN4, F*, LATEX, Rust, OCaml, Haskell

Languages

Hindi (Native Proficiency), English (Fluency)