## Soumyadeep Paul

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Email: soumyadeep.paul@tifr.res.in Website: smdp26.github.io Nationality: Indian

EDUCATION	Tata Institute of Fundamental Research Integrated PhD in Computer Science	2024 – Present
	Medium of instruction: English	
	Chennai Mathematical Institute	2021 – 2024
	BSc (Honours) in Mathematics and Computer Science	
	Medium of instruction: English	
	DAV Public School, Haldia	2019 - 2021
	Senior School Certificate Examination - 93.4%	2017 2021
	St. Xavier's School, Haldia	2008-2019
	Secondary School Examination - 94.2%	2000 2017
	Distribute d'Openneutin en Comme en Internetin	
INTERNSHIPS	Distributed Computing - Summer Internship	May 2024 - ongoing
	Understanding the limits of local decision	
	Supervision: Prof. Prof. Ami Paz, LISN lab (Paris-Saclay University	/) and Prof. Laurent
	Feuilloley, LIRIS (Université de Lyon).	
	Additive Combinatorics - Reading Project	Feb 2024 - Jun 2024
	Supervision: Prof. Amit Kuman Sinhababu, CMI.	
	IITB Trust Lab Internship Program	May 2023 - Dec 2023
	Understanding the limits of Information-Theoretically Secure I	Multi-Party Compu-
	tation	
	Supervision: Prof. Manoj Prabhakaran, IIT Bombay.	
EXPERIENCE	RIMC Entrance	Dec 2023
	Was part of a team of 10 responsible for correcting the an	swer scripts for the
	entrance examination of Rashtriya Indian Military College.	
ACHIEVEMENTS	Selected for IITB Trust Lab Internship Program, IIT Bombo	IV 2023
	CMI Shriram Scholarship	2021
	Full tution fee waiver for undergraduate studies at CMI	
	Qualified <b>Tesselate Stems</b> (Organised by students of CN	<b>/II)</b> 2021
	Quaified <b>Sum - It</b> (Organised by students of ISI Kolkata)	2020
	Qualified for final round of Young Innovators Program	2017
	(Organised by students of IIT Kharagpur)	2017
WORKSHOPS	IITB CSE Research Symposium	March 2023
	Selected for CSE Research Symposium at IIT Bombay.	
	Madhava Maths Camp	2022
	Summer Camp for MMC 2022 Qualified Students at CM	
	Topics taught: Algebra(Groups, Rings), Analysis(StoneW	
	Theorem), Graph Theory and Combinatorics(Arrange plane).	ements of Hyper-

PRESENTATIONS	Distributed aprroximate algorithm for bipartite vertex cover presentationgiven as a part of combinatorial optimization course(link).2024Most efficient binary encoding of a message talk delivered as part of the2023CMI Student Seminar (slides) (website).2023Project report on Locally decodable codes with 2 queries and polynomial2021identity testing for depth 3 circuits based on the paper by Zeev Dvir andAmir Shpilka as a part of algorithmic coding theory.course(link).2023		
COURSEWORK (TIFR)	<b>Semester 1</b> Data structures and algorithms Mathematical Foundations of Computer Science Probability		
COURSEWORK (CMI)	<b>Semester 1</b> Analysis 1 Linear Algebra Haskell Classical Mechanics English	<b>Semester 2</b> Probability Theory Discrete Mathematics Advanced Programming Group Theory Analysis 2	
	Semester 3 Ring Theory and Field Theory Design and Analysis of Algorithms Theory of Computation Analysis 3 Calculus	<b>Semester 4</b> Complexity Theory 1 Programming Language Con- cepts Topology Differential Equations Complex Analysis	
	Semester 5 Quantum ALgorithms Algorithmic Coding Thoery Stochastic Processes Theroretical Foundations of Ma- chine Learning	<b>Semester 6</b> Approximation Algorithms Combinatorial Optimization Quantum Information Theory Economics	
SKILLS	Programming Haskell, Python, Java, MEX, Bash, Qiskit Languages		
	Fluent in Bangla ( Native ), English and Hindi.		