

Sayak Chowdhury

EDUCATION

Ramakrishna Mission Vivekananda Educational and Research Institute

Master of Science - Big Data Analytics (Jul 2024 – Ongoing)

1st Semester SGPA: 6.09

Courses: Statistics I, Probability and Stochastic Processes, Data Structures and Algorithms, Machine Learning, Java and Hadoop

2nd Semester: Advanced Statistical Methods, Time Series and Survival Analysis, Deep Learning and NLP, Spectral Graph Theory and Algorithms, Computer Vision

St. Xavier's College (Autonomous), Kolkata

Bachelor of Science - Mathematics (Sep 2021 – Jun 2024)

Grade: 6.02 (B+)

Courses by Semester:

- S1: Foundation in Calculus and Geometry, Foundation in Algebra
- S2: Real Analysis-I, Differential Equations-I, Group Theory-I
- S3: Real Analysis-II, Group Theory-II, Linear Algebra-I, Differential Equations-II, Mechanics
- S4: Probability Theory, Multivariate Calculus, Riemann Integration, Metric Spaces-I, Ring Theory-I, Linear Algebra-II
- S5: Numerical Methods, Vector Calculus, Ring Theory-II, Linear Programming, Game Theory, Advanced Algebra
- S6: Differential Equations-III, Metric Spaces-II, Advanced Probability and Statistics, Series and Sequence of Functions, Complex Analysis

Mansur Habibullah Memorial School

Class 12th (ISC): 96.25% — Class 10th (ICSE): 94.4%

WORK EXPERIENCE

Quality Control Specialist – Brainly (Apr 2023 – Jan 2024)

Internship — Duration: 10 months

Checked solutions on Brainly portal for adherence to guidelines.

Evaluated academic content for quality and correctness before publication.

Quality Assurance Specialist – Chegg Inc. (Jan 2023 – Dec 2023)

Freelance — Duration: 1 year

Fixed and restructured questions on the live portal as per academic and content quality standards.

Subject Matter Expert – Learnasyougo (Oct 2022 – Nov 2022)

Internship — Duration: 2 months

Solving Live Doubts of Mathematics and Physics on InfinityLearn.

Doubt Solving – Mentor Match (March 2022 – Dec 2022)

Freelance — Duration: 9 months

Solving Live Doubts of Mathematics and Physics.

Subject Matter Expert – FullScore (June 2022 – August 2022)

internship — Duration: 2 months

Review and Creation of Mathematics Problems of K-12 Level

Subject Matter Expert – FullScore (June 2022 – August 2022)

Freelance — Duration: 2 months

Review and Creation of Mathematics Problems of K-12 Level

Subject Matter Expert – NioClass (April 2022 – May 2022)

Internship — Duration: 2 months

Creating Solutions of various IIT-JEE Books, Olympiads and Study Materials of Mathematics

PROJECTS

- **A Machine Learning Classification Approach Using Fashion MNIST**

GitHub Link

- **Prediction of Pediatric Pneumonia in Chest X-Rays using Deep Learning**

Link: Yet to be uploaded

- **Real Time Facial Emotion Detection using Deep Learning**

Link: Yet to be uploaded

LECTURES AND SEMINARS ATTENDED

- **19–20 Apr 2025:** AI Launchpad: Machine Learning & Generative AI Workshop by Meteoros Automation
- **19 Mar 2025:** 'Software Reliability Modeling with Periodic Debugging' Seminar by Dr. Sudipta Das
- **28 Feb 2025:** Seminar on 'Open Problems in CS' by Prof. Anil Maheshwari, Carleton University, Canada
- **19 Feb 2025:** National Seminar on Algebra and Number Theory by Prof. Neena Gupta (Indian Statistical Institute) & Prof. Stephan Baier (RKMVERI, Belur)
- **5 Feb 2025:** 'A graph theory perspective on the quest for dichotomy' Seminar by Prof. Pavol Hell, Simon Fraser University
- **20 Nov 2024:** Seminar on K-Minimum Uniform Sampling by Prof. Sumit Ganguly, IIT Kanpur
- **13 Nov 2024:** Seminar on Computer Vision Applications by Dr. Swapna Agarwal, Adani AI Labs
- **28 Aug 2024:** 'From Theory to Experiment in Quantum Computing' Talk by Dr. Ritajit Majumdar, IBM Quantum, IBM India Research Lab
- **15th Sept 2023:** 'Transition from high School Algebra to College Algebra' by Dr. Amartya Kumar Dutta, Indian Statistical Institute
- **15th Sept 2023:** 'Introduction to Riemann Integration and the Property of Lebesgue' by Dr. Lakshmi Kant Dey, NIT, Durgapur
- **14th Sept 2023:** 'Finite State Automata' by Dr. Arnab Chakroborty, Indian Statistical Institute
- **14th Sept 2023:** 'The Secret Life of Prime Numbers: A Gateway to Learn Cyber Security' by Dr. Avishek Adhikari, Presidency University

TECHNICAL SKILLS

- Python
- C++
- R