Samya Mukherjee

+91-7003905133

samya.riju@gmail.com

Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
Msc,Big Data Analytics 2024-2026	Ramakrishna Mission Vivekananda Educational and Research Institute(RKMVERI)	7.00/10.0	Pursuing
BS Data Science (Foundational level)	Indian Institute of Technology, Madras	8.75/10.0	May 2023
Bsc,Mathematics	St Xavier's College(Autonomous) Kolkata	6.94/10.0	2024
Higher Secondary	Sri Aurobindo Vidya Mandir	95.8%	2021
Madhyamik	Sri Aurobindo Vidya Mandir	88.2%	2019

test scores

- **INDIAN STATISTICAL INSTITUTE ADMISSION TEST(MSQMS)**: AIR(All India Rank) 16
- **NIMCET(NIT MCA Common Entrance Test)**: AIR(All India Rank) 381
- **IIT JAM(MA)**: AIR(All India Rank) 919
- **GATE(MA)**: AIR(All India Rank) 1812
- **CUET PG**: SCQP09(Computer Science and Information Technology)-166/300
- **CUET PG**: SCQP19(Mathematics)-184/300

Achievements

- **QUALIFIED RMO(Regional Maths Olympiad)** Achievement 1
- **DST INSPIRE AWARDEE(for being top 1 % in class 12 board exam)** Achievement 2
- **IOQM(Indian Olympiad Qualifier In Mathematics) Certificate Of Merit** Achievement 3
- **FR. LAFONT SCHOLARSHIP FOR ACADEMIC PERFORMANCE** Achievement 4
- **Selected for INMO TC AT ISI KOLKATA** Achievement 5
- **Awarded Diploma Of The Certificate Of French Elementary Primary Studies** Achievement 6
- **Based on CUET(SCQP09) marks selected in Kirori Mal College, Delhi[Masters in Operational Research]**

Certifications

- **Indian Institute Of Technology Madras**, FOUNDATION CERTIFICATE *2023*
- **Indian Statistical Institute Kolkata**, RMO MERIT CERTIFICATE *2019*
- **MATHEMATICS TEACHERS' ASSOCIATION (INDIA)**, Certificate of Merit *2020*
- **National Board Of Higher Mathematics,TIFR,Homi Bhaba Centre For Science Education**, INMO *2019*
- **Diploma Certificate of French**, CERTIFICATE *2017*
- **NPTEL-OPTIMIZATION THEORY AND ALGORITHM**, CERTIFICATE *OCT-2024*

Projects

- **Project: [Stochastic Differential Equation]** *May 2024*
  Tools: [Itô Calculus, Stochastic Calculus] [LINK]
  - Developed Itô Integral and studied its properties.
  - Implemented Brownian Motion (Wiener Process), Itô Lemmas, Stochastic Integral, and Python code to solve a linear SDE for Geometric Brownian Motion.
  - Learned Markov and Martingale properties.
- **Project: [Heart Disease Prediction Using ML]** *With: Ayan Bannerjee (Collaborator), Tamal Maharaj (Supervisor)*
  Tools: [ML, Data Preprocessing, Classification] [LINK]
- **Project: [Image Filtering and Hybrid Image Generation]** *[LINK]*
  Collaborator: Sayak Chowdhury, Supervisor: Tamal Maharaj

Skills

- **Programming Languages**: R Programming,C,Python,Java and Hadoop,HTML,MongoDB,Excel,C++,Open CV, SQL
- **Libraries and Others**: Pandas,Numpy,Scikit-learn,TensorFlow,Power BI,Matplotlib,DSA(Python)
- **Maths and Statistics** NumberTheory,Geometry,Combinatorics,Calculus,Linear Algebra,Real Analysis,Complex Analysis,Topology,Differential Equation,Abstact Algebra,Statistics and Probability,Random variables,Stochastic Process,Optimization theory and algorithms
- **Languages**: Bengali (First Language), English (Proficient in Reading, Writing, Speaking), Hindi (Intermediate), French (Basic)