RONAK SARKAR

M.Sc in Big Data Analytics RKMVERI, Belur Math, West Bengal, India

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PROJECTS

- Congruence Theory and Its Applications
 - Explored applications of Congruence Theory in Number Theory and Cryptography.
- Fashion MNIST Classification
 - Developed a machine learning model to classify images from the Fashion MNIST dataset.
 - Focused on achieving high accuracy using advanced classification techniques.
- ChessLens: Chess Board Visualization
 - Built a Python-Tkinter GUI to display chess positions from FEN strings.
 - Used OpenCV for chessboard detection and edge analysis.
- Visual Question Answering (VQA) Model
 - Built a VQA model combining CNNs and NLP using the VizWiz dataset.
 - Applied R-CNNs and attention mechanisms to enhance accuracy.

COURSEWORK

- Data Structures and Algorithms
- Java & Hadoop
- Machine Learning
- Computer Vision
- · Deep Learning and NLP
- Joy of Computing Using Python
- Linear Algebra

- Time Series & Survival Analysis
- Graph Database & Distributed Computing
- Advanced Statistics
- Probability and Stochastic Process
- Statistics-I
- Universal Human Values

EDUCATION

 Ramakrishna Mission Vivekananda Educational and Research Institute, Howrah

M.Sc in Big Data Analytics

- **2**024 2026 (Expected)
- · Chandernagore College, University of Burdwan

B.Sc in Mathematics

- **=** 2021 2024
- Pandua Sasibhusan Saha High School Higher Secondary (PCM Computer Science)
 - **2013 2021**
- Nivedita Sishu Siksha Kendra

Elementary School

2009 - 2012

SKILLS

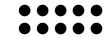
- Programming: Python, R
- Concepts: Machine Learning, Data Analysis, Data Structures
- Mathematics: Abstract Algebra, Linear Algebra, Probability Statistics
- Tools: Computer Vision, ELAN Annotation Tool

CERTIFICATIONS

• IT/ITES Vocational Course: Level 1 and Level 2

LANGUAGES

- English
- Bengali



INTERESTS

Chess (FIDE rating: 1446), Machine Learning, Computer Vision, ASR

EXPERIENCE

IASc-INSA-NASI Summer Research Fellow

Indian Institute of Technology Bombay

- **May 2025 July 2025**
- Mumbai, India
- Selected under national SRFP programme to work under Prof. K.S. Mallikarjuna Rao.
- Working on research problems related to Financial Probability.