

JANOJIT CHAKRABORTY

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

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👤 Janojit

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🌐 Portfolio



EXPERIENCE

Summer Research Fellow

IIT Ropar

📅 May 2025 – July 2025

📍 Ropar, India

Mentor: Dr. Sudarshan Iyengar | IASc-INSa-NASI Fellow

Project: **Speech Completion Prediction**

Data Analytics Intern

Exavalu Solutions

📅 Jan.–Apr. 2024

📍 Kolkata, India

Analyzed Superstore dataset with Tableau, created interactive dashboards.

Project Intern

Indian Statistical Institute

📅 Jul.–Aug. 2023

📍 Kolkata, India

WPI Compilation Project at Sampling and Official Statistics Unit (DES Tripura).

Research Intern

RKM Vidyamandira

📅 Jul.–Aug. 2022

📍 Howrah, India

Worked on ML-based analysis in smart agriculture and health.

Mentor: Dr. Arindam Sarkar

PROJECTS

- **Speech Completion Prediction Tools:** PyTorch, GloVe, MERN Stack [Link] *May–Jul. 2025*
 - Developed a real-time system to estimate the semantic progress of a speech or lecture as a percentage.
 - Implemented two complementary methods: (1) supervised BiGRU model using semantic information gain, knowledge graphs, and GloVe embeddings; (2) unsupervised topic modeling with LLM-generated reference content.
 - Combined both approaches for improved accuracy and robustness; deployed via an interactive MERN-based web interface.
- **Multi-modal Hate Speech Detection Tools:** PyTorch, MobileNetV2, GloVe [Link] *Apr.–May 2025*
 - Built 6 deep learning models combining text and image data for hate speech detection.
 - Implemented fusion strategies and resolved label ambiguity using majority voting.
- **Spotify Track Popularity Prediction Tools:** scikit-learn [Link] *Nov. 2024*
 - Applied regression models to predict track popularity from audio features.
 - Compared traditional vs ensemble methods for predictive performance.
- **Analytics on Indian Agriculture and Economy Tools:** Streamlit, Pandas [Link] *Nov.–Dec. 2022*
 - Built to analyze crop yield, rainfall, GDP linkages.

ACHIEVEMENTS

- Recipient of the prestigious **IASc-INSa-NASI Summer Research Fellowship**
- GATE DA 2025 Qualified – IIT Roorkee
- Co-Curricular Scholarship – CHRIST University (2024)

EDUCATION

• RKMVERI, Howrah

M.Sc. Big Data Analytics

📅 2024 – Present

• CHRIST (Deemed to be University), Pune

B.Sc. Data Science

📅 2021 – 2024 | CGPA: 3.67/4

COURSE WORK

- | | |
|---|--------------------------------------|
| • Machine Learning | • Computer Vision |
| • Deep Learning | • DSA |
| • NLP | • Statistics |
| • Big Data Tools | • DBMS |
| • Deep Reinforcement Learning | • Deep Learning for Cybersecurity |
| • Linear Algebra and Matrix Computation | • Probability and Stochastic Process |
| • R | • Python |

SKILLS

- **Languages:** Python, R, SQL, LaTeX
- **Databases:** MySQL, MongoDB, Neo4j
- **Frameworks:** scikit-learn, Streamlit, Hadoop, Spark, Ray, PyTorch
- **Tools:** Git, Tableau, Excel

VOLUNTEERING

- Member, Organising Committee, Perceptron 2025 (Tech Fest by RKMVERI, Belur, Howrah)
- Student Volunteer at IACIDS 2023 (CHRIST University, Pune)
- Member, Student Council, CHRIST University, Pune (2023–2024)

LANGUAGES

- Bengali (Native)
- English
- Hindi

HOBBIES

- Playing and Watching Football
- Watching Stand-Up Comedy
- Exploring Philosophy and Thoughts