

# Atanu Saha

MSc in Big Data Analytics | BSc(Hons) in Statistics  
Location: Kanchrapara, India

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## EDUCATION

- MSc in Big Data Analytics

Aug 2023 – Jul 2025

Ramakrishna Mission Vivekananda Educational and Research Institute, Howrah
- BSc(Hons) in Statistics

Aug 2020 – Jul 2023

Kalyani Mahavidyalaya, Kalyani University

CGPA: 8.5/10

## PERSONAL PROJECTS

- Defect Detection on non-flat metallic surfaces

Dataset creation, analysis of failure cases, and application of machine learning for defect classification.

– Created a non-flat surface defect dataset by applying transformations on the NEU dataset.

– Identified failure cases in existing approaches.

– Applied machine learning models (SVM, KNN, Random Forest, Logistic Regression) for defect classification.

– Achieved 96.11% accuracy with DenseNet-121 when the model was trained using flat data and tested using non-flat data.
- Classification of Ragas in Indian Classical Music Using Machine Learning Algorithms

Dataset creation and audio feature extraction for raga classification.

– Created a dataset of 9 different Ragas.

– Extracted features from audio data using the librosa package.

– Applied machine learning models (KNN, SVM, Random Forest, Naive Bayes) to predict the raga of a music file.

– Achieved 95% accuracy with Random Forest Classifier.
- Statistical Analysis of Churning Customer Data of a German Bank

Analyzed customer churn and identified key factors.

– Analyzed customer churn rate based on factors such as age, tenure, and gender.

– Utilized R-Studio for statistical analysis and plotting.

– Identified primary reasons for customer churn.

## EXPERIENCE

- Research Assistant

January 2025 – Present

FLAME University, Pune, India

– Working on a project focused on immersive music learning using AR/VR.
- Summer Internship

May 2024 – June 2024

FLAME University, Pune, India

– Worked on defect detection on non-flat steel surfaces under the supervision of Dr. Chiranjoy Chattopadhyay.

## TECHNICAL SKILLS AND INTERESTS

**Languages:** Python, C, R  
**Tools:** R-Studio, Excel, MySQL  
**Areas of Interest:** Machine Learning, Deep Learning, Computer Vision, Data Structures and Algorithms, Artificial Intelligence

## ACHIEVEMENTS

- CR Rao Statistics Olympiad

Cleared with Rank 4 (AIR 2)

2020
- ISI MSQMS Entrance

Cracked entrance exam (AIR 25)

2023
- SVMCM Scholarship

Received scholarship from Govt. of West Bengal

2018-Present

## STRENGTHS

- Hard-working
- Eye for detail
- Creative
- Innovative Thinker
- Uplifts Others