

# INDRANIL GANGULY

M.Sc. in Big Data Analytics

Ramakrishna Mission Vivekananda Educational and Research Institute, Belur Math, West Bengal, India

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Portfolio

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## ACADEMIC PROJECTS

- Project Title:** Medibot – AI-Powered Medical Chatbot with RAG  
**Keywords:**
  - Retrieval-Augmented Generation (RAG) for knowledge grounding
  - FAISS vector store for semantic search
  - Hugging Face Mistral LLM for conversational response
  - Streamlit-based chatbot UI
  - Secure API integration and secret management**GitHub:** <https://github.com/iamganguly-2002/Medibot>  
**Faculty Guide:** punyeswarananda maharaj
- Project Title:** *Comparative Sentiment Analysis on IMDB Reviews Using LSTM, CNN, and BERT*  
**Keywords:** Deep learning, NLP, Sentiment classification, LSTM, CNN, BERT  
**GitHub:** [github.com/iamganguly-2002/IMDB-Sentiment-Analysis](https://github.com/iamganguly-2002/IMDB-Sentiment-Analysis)  
**Faculty:** Dr. Soumitra Samanta
- Project Title:** AI-Powered Face Mask Classification System  
**Keywords:**
  - Image data collection & preprocessing
  - NumPy array conversion
  - MobileNet-based transfer learning
  - Real-time computer vision**GitHub:** [https://github.com/iamganguly-2002/Face\\_Mask\\_Detection](https://github.com/iamganguly-2002/Face_Mask_Detection)  
**Faculty Guide:** Br. Tamal Maharaj
- Project Title:** Classification Algorithm on Organ-CMNIST  
**Keywords:**
  - Various Classification Algorithms.
  - Each dataset is processed to extract images and labels.**GitHub:** [https://github.com/iamganguly-2002/Classification\\_Algorithms\\_on\\_Organ-CMNIST](https://github.com/iamganguly-2002/Classification_Algorithms_on_Organ-CMNIST)  
**Faculty Guide:** Br. Tamal Maharaj
- Project Title:** Comprehensive Regression Analysis on Diabetes Dataset  
**Keywords:**
  - Explored Linear, Polynomial, Ridge, Lasso, SGD Regression.
  - Applied Gradient Descent, Normal Equation, SVD for optimization.**GitHub:** [https://github.com/iamganguly-2002/Machine\\_Learning\\_Regression\\_Project](https://github.com/iamganguly-2002/Machine_Learning_Regression_Project)  
**Faculty Guide:** Br. Tamal Maharaj
- Project Title:** Brain Tumor Classification using CNN  
**Keywords:**
  - Image data collection and preprocessing, CNN.**GitHub:** [https://github.com/iamganguly-2002/Brain-Tumor\\_classification](https://github.com/iamganguly-2002/Brain-Tumor_classification)

## COURSEWORK

- RKMVERI**
  - Deep Learning
  - Natural Language Processing
  - Computer Vision
  - Artificial Intelligence
  - Time Series
- Survival Analysis
  - Machine Learning
  - Statistics
  - Graph Theory
  - Java & Hadoop
  - Data Structure in python
  - Reinforcement Learning

## ACHIVEMENTS

- B.Sc Mathematics Honours Certificate under Calcutta University.
- SAGE math and Application course certificate with 80 marks(out of -100) from Peary Mohan College
- Awarded the title 'Vidya Shree' from Konnagar Municipality.
- Basic Computer Application Course Certificate in collaboration with ICT Schools from Mahesh Sri Ramkrishna Mission Assram .

## EDUCATION

- Ramakrishna Mission Vivekananda Educational and Research Institute, Howrah**  
**M.Sc. in Big Data Analytics**
  - 2024 – Present (Sem-1) CGPA: 5.50
- Uttarpara Raja Peary Mohan College**  
**B.Sc.(H) in Mathematics**
  - 2020 – 2023 CGPA: 7.972
- Uttarpara Amarendra Vidyapith(H.S)**  
**High Secondary Education (10+2)**
  - 2018 – 2020 Score: 91.25%
- Mahesh Sri Ramkrishna Mission Assram(H.S)**  
**Secondary Education (10)**
  - 2013 – 2018 Score: 89.25%

## TECHNICAL SKILLS

- Programming Languages:** Python, Java, C, C++, R,  $\text{\LaTeX}$ , SQL, html, css, JS
- Frameworks:** Pytorch, Hadoop, Numpy, Pandas, Matplotlib
- Tools:** Git/Github, Power BI, MS Office
- Operating System:** Windows, Linux (Ubuntu)

## ACTIVITY

- Fest Organiser**
  - Organizing Committee Member, 2023 (annual departmental college fest)
- Volunteer**
  - Member of Volunteer group, students council [PERCEPTRON-2024]
- Anchoring in school and college Fest.

## HOBBY

- Traveling, Car driving, Photography
- Bike Racing.