

ABAHA MONDAL

M.Sc. in Big Data Analytics

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

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PROJECTS

- **CleanVision using DIV2K:** Deep Learning based Real-Time Denoising and Restoration of Noisy Images(Computer Vision)
Keywords: OpenCV (cv2), PyTorch, TensorFlow, DnCNN, Image Denoising, Gaussian Noise, Speckle Noise, Salt & Pepper Noise, Inpainting, PSNR, SSIM, Hyperparameter Sensitivity Analysis, Real-Time Web Deployment, Gradio Jan.'25 - Apr.'25, RKMVERI
Faculty: Br. Bhaswarachaitanya
- **IPL Score Predictor:** A Deep Learning based approach on predicting the first innings score of an IPL match by merging ball-by-ball and matches dataset via uniqueID
Keywords: Deep Learning, IPL Score Prediction, Ball-by-Ball Data, Match Data, Data Merging via uniqueID, LSTM, GRU, Transformer, CNN-BiLSTM etc, Mean Absolute Error, Root Mean Squared Error, R^2 Score, Gradio, Web Deployment Jan.'25 - Apr.'25, RKMVERI
Faculty: Dr. Soumitra Samanta
- **Automated Short Answer Grading(ASAG):** A NLP based LLM project with specialization in Multi-Modal DocQA – MDocAgent
Keywords: MDocAgent, Multi-modal, Multi-agent, Document Question Answering (DocQA), Retrieval-Augmented Generation (RAG), OCR, Visual Embeddings, Text Extraction, Context-aware Evaluation, Specialized Agents, Hugging Face Datasets June.'25, RKMVERI
Faculty: Mr. Champak Dutta
- **Rainfall Prediction Analysis:** A typical ML project for predicting rainfall in a certain area using some factors
Keywords: Kaggle, Python, Numpy, Colab, Pandas, Models implemented: Logistic Regression, Decision Tree, Random Forest, SVM, XG-Boost, KNN, Evaluation Metrics: Accuracy, F1 score, ROC-AUC, XG-Boost outperformed Aug.'24 - Nov.'24, RKMVERI
Faculty: Br. Bhaswarachaitanya

COURSEWORK

- Data Structures & Algorithms
- Probability & Stochastic Process
- Advanced Statistics
- Machine Learning
- Deep Learning and NLP
- Artificial Intelligence
- Computer Vision
- Time Series & Survival Analysis
- Spectral Graph Theory
- Java & Hadoop
- Econometrics & Finance
- Universal Human Values

ACHIEVEMENTS/CERTIFICATIONS

- **NPTEL:** The Joy of Computing Using Python(Nov.'24)
- **SVMCM:** Awarded for academic excellence in BSc(Feb.'25-Ongoing)
- **CUET:** Qualified CUET PG Mathematics & Data Science conducted by NTA(Mar.'24)

EDUCATION

- **Ramakrishna Mission Vivekananda Educational and Research Institute, Howrah**
M.Sc. in Big Data Analytics
 - 2024 – Present (Sem-1) CGPA: 6.09
- **AJC Bose College, Kolkata**
B.Sc.(H) in Mathematics
 - 2020 – 2024 CGPA: 7.97
- **St. Paul's Mission School, Kolkata**
Indian School Certificate (10+2)
 - 2018 – 2020 Score: 87.50%
Indian Certificate for Secondary Education (10)
 - 2007 – 2018 Score: 90.08%

TECHNICAL SKILLS

- **Programming Languages:** Python, C, Java, R, \LaTeX
- **Frameworks:** Pytorch, OpenCV, scikit-learn, Seaborn, Hadoop, NumPy, Pandas, Matplotlib
- **Tools:** Git/Github, Google Analytics, AWS, Oracle Database, Power BI, MS Office
- **Operating System:** Windows, Linux (Ubuntu)

ACTIVITY

- **Chegg (Remote) - Subject Matter Expert (Mathematics)**
 - Provided detailed step-by-step solutions for Mathematics problems
- **Fest Organiser**
 - Core Committee Member of **Perception 2025** Chess Group
- **Problem solver at HackerRank and LeetCode**
 - Solve Python Problems
 - Solve DSA problems

HOBBY

- Cricket
- Music
- Chess
- Photography