

SOHAM BHATTACHARYA

M.Sc. in Big Data Analytics

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

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INTERESTS

Natural Language Processing, Computer Vision, Predictive Analysis, FinTech, Digital Humanities, Geospatial Analysis, Sentiment Analysis

PROJECTS

- **K8sCIFAR:** Distributed Data parallelism on CIFAR-10 using Kubernetes
Tools: PyTorch, Kubernetes Jan.'25 - Apr.'25, RKMVERI
Faculty: Mr. Champak Dutta
- **Raag Sense:** A Deep Learning Outlook to Raga Recognition in Indian Classical Music (ICM)
Keywords: Dataset curation, ICM-aware feature extraction, MFCC, CNN; 96.82% accuracy Jan.'25 - Apr.'25, RKMVERI
Faculty: Dr. Soumitra Samanta
- **ChessLens:** Chess piece localization and real-time chessboard digitization
Keywords: open-cv, comprehensive EDA, occupancy detector; 93.75% accuracy Jan.'25 - Apr.'25, RKMVERI
Faculty: Br. Bhaswarachaitanya
- **Rhythms of the Mind:** Detection of mental-health condition for Music Therapy using ML techniques
Keywords: Python, Kaggle, EDA, Feature engineering, hyperparameter tuning; 76% accuracy Aug.'24 - Nov.'24, RKMVERI
Faculty: Br. Bhaswarachaitanya
- **Savoring Sentiments:** Predicting Restaurant Recipe Ratings through Sentiment Analysis
Keywords: EDA, TF-IDF Vectorizer, LightGBM; 93% accuracy Jan.'24 - Apr.'24, IIT Madras
Faculty: Dr. Ashish Tendulkar

COURSEWORK

- **RKMVERI**
 - Deep Learning
 - Natural Language Processing
 - Computer Vision
 - Artificial Intelligence
 - Time Series & Survival Analysis
 - Machine Learning
 - Statistics
- **IIT Madras**
 - Java & Hadoop
 - Econometrics & Finance
 - Reinforcement Learning
 - Programming in Python
 - Machine Learning
 - Statistics
 - Business Data Management & Business Analytics
 - Tools in Data Science

ACHIVEMENTS/CERTIFICATIONS

- **Topper** in courses: Statistics, Data Structures & Algorithms (**RKMVERI**)
- **Topper** in courses: Tools in Data Science, Programming in Python (**IIT Madras**)
- **Forage:** Deloitte Australia - Technology Job Simulation (Jun.'25)
- **Coursera:** Introduction to Machine Learning on AWS (Feb.'25), Google Crash Course in Python (Sept.'22)
- **NPTEL:** Competitive Programming (Nov.'24)
- **Google:** Google Analytics Individual Qualification (Jul.'24)

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, SQL, \LaTeX
- **Frameworks:** PySpark, Hadoop, Pregel
- **Tools:** Git/Github, Google Analytics, AWS, Docker, QGIS, Geopandas, Google Data Studio, Flourish, Tableau, Kumu, Power BI, MS Office
- **Operating System:** Windows, Linux (Ubuntu)

EDUCATION

M.Sc. in Big Data Analytics

Ramakrishna Mission Vivekananda Educational and Research Institute, Howrah

(Rank: 5/27)

2024 - Present (Sem-1) CGPA: 7.87

Diploma in Data Science

Indian Institute of Technology Madras

2021 - 2024 CGPA: 8.54

B.Sc.(H) in Mathematics

St. Xavier's College Kolkata

2021 - 2024 CGPA: 6.72

Indian School Certificate (10+2)

Don Bosco School Liluah

2019 - 2021 Score: 94.25%

LEADERSHIP POSITIONS

- **RKMVERI**
 - Placement Coordinator [May'25 - Present]
 - Organizing Committee Member, Perceptron 2025 (annual departmental tech fest (Jan.'25)
 - Class Representative [Jul.'24 - Present]
- **IIT Madras**
 - Group Leader, Student Council IITM BS [Aug.'23 - Aug.'24]

HOBBY

- Indian Classical Music, Photography