

SOHAM BHATTACHARYA

M.Sc. in Big Data Analytics
Ramakrishna Mission Vivekananda Educational and Research Institute, Belur Math, West Bengal, India

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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 Forecasting
 - Survival Analysis
 - Machine Learning
 - Statistics
- Java & Hadoop
 - Econometrics & Finance
 - Reinforcement Learning**IIT Madras**
 - Programming in Python
 - Machine Learning
 - Statistics
 - Business Data Management & Business Analytics
 - Tools in Data Science

ACHIEVEMENTS/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 & Data Analytics 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)

EDUCATION

- **Ramakrishna Mission Vivekananda Educational and Research Institute (RKMVERI), Belur, Howrah**
M.Sc. in Big Data Analytics
(Rank: 5/27)
 - 📅 2024 - Present (Sem-1) CGPA: 7.87
- **Indian Institute of Technology Madras**
Diploma in Data Science
 - 📅 2021 - 2024 CGPA: 8.54
- **St. Xavier's College Kolkata**
B.Sc.(H) in Mathematics
 - 📅 2021 - 2024 CGPA: 6.72
- **Don Bosco School Liluah**
Indian School Certificate (10+2)
 - 📅 2019 - 2021 Score: 94.25%
Indian Certificate for Secondary Education (10)
 - 📅 2008 - 2019 Score: 90%

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, SQL, \LaTeX , HTML, CSS
- **Frameworks:** PySpark, Hadoop, Pregel
- **Databases:** MySQL, Neo4j
- **Tools:** R, Git/Github, Google Analytics, AWS, Docker, QGIS, Geopandas, Google Data Studio, Flourish, Tableau, Kumu, Power BI, MS Office

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