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
  Faculty: *Dr. Ashish Tendulkar*   *Jan.'24 - Apr.'24, IIT Madras*

COURSEWORK

- *RKMVERI*
  - Deep Learning
  - Natural Language Processing
  - Computer Vision
  - Artificial Intelligence
  - Time Series & 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** (*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, 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
- **Frameworks:** PySpark, Hadoop, Pregel
- **Tools:** R, Git/Github, Google Analytics, AWS, Docker, QGIS, Geopandas, Google Data Studio, Flourish, Tableau, Kumu, Power BI, MS Office
- **Operating System:** Windows, Linux (Ubuntu)

LEADERSHIP POSITIONS

- **RKMVERI**
  - Placement Coordinator [*May'25 - Present*]
  - Organizing Committee Member, Perceptron 2025 (annual deparmental 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