SOHAM BHATTACHARYA

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

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PROJECTS

- **Multimodal Sentiment Analysis**
  Research Internship project at Indian Statistical Institute Kolkata
  Advisor: *Dr. Umapada Pal & Dr. Ali Reza Alaei*   *Jun.'25 - present, ISI Kolkata*

- **K8sCIFAR:** Distributed Data parallelism on CIFAR-10 using Kubernetes
  Tools: PyTorch, Kubernetes, Docker
  Faculty: *Mr. Champak Dutta*   *Jan.'25 - Apr.'25, RKMVERI*

- **Raag Sense:** A Deep Learning Outlook to Raga Recognition in Indian Classical Music (ICM)
  Keywords: Data curation, ICM-aware feature extraction, MFCC, CNN
  Faculty: *Dr. Soumitra Samanta*   *Jan.'25 - Apr.'25, RKMVERI*

- **ChessLens:** Chess piece localization and real-time chessboard digitization
  Keywords: open-cv, comprehensive EDA, occupancy detector
  Faculty: *Br. Bhaswarachaitanya*   *Jan.'25 - Apr.'25, RKMVERI*

- **Rhythms of the Mind**: Detection of mental-health condition for Music Therapy using ML techniques
  Keywords: Python, Kaggle, EDA, Feature engineering, fine-tuning
  Faculty: *Br. Bhaswarachaitanya*   *Aug.'24 - Nov.'24, RKMVERI*

- **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 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*), Tools in Data Science, Programming in Python (*IIT Madras*)
- **Udacity**: Introducing Generative AI with AWS (*Aug.'25*)
- **Coursera**: Automation & Advanced Techniques with Copilot in Excel by *Microsoft (Jul.'25)*, 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*)

ACTIVITIES

- Attended **Crest Crypto Summer School 2025, TCG Crest** (*June 2025*)
- NPTEL Workshop: **Time Series Forecasting using LSTM and ARIMA** (*June 2025*)

EXPERIENCE

Research Intern
🏛 Jun.'25 - present   📍 ISI, Kolkata

Research Internship at Indian Statistical Institute, Kolkata
Advisor- **Prof. Umapada Pal**

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, C, C++, LaTeX, HTML, CSS
- **Frameworks:** PySpark, Hadoop, Pregel
- **Databases:** MySQL, Neo4j
- **Tools:** R, Docker, Git/Github, MS Excel, Google Analytics, AWS, QGIS, Geopandas, Google Data Studio, Flourish, Tableau, Kumu, Power BI

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*]