

SOHAM BHATTACHARYA

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M.Sc. in Big Data Analytics, RKMVERI Belur

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PROJECTS

- Multimodal Sentiment Analysis** *Jun.'25 - present, ISI Kolkata*
Description: Novel perspective on multimodal sentiment analysis through underutilized yet emotionally rich cues in real-world media
Keywords: Sentiment Analysis
- K8sCIFAR** *Jan.'25 - Apr.'25, RKMVERI*
Description: Demonstrated distributed data parallelism on CIFAR-10 using Kubernetes
Tools: PyTorch, Kubernetes, Docker
- Raag Sense** *Jan.'25 - Apr.'25, RKMVERI*
Description: A pioneering DL-based system for raga recognition in Indian Classical Music (ICM), setting a new benchmark
Keywords: Data curation, ICM-aware feature extraction, MFCC, CNN
- ChessLens** *Jan.'25 - Apr.'25, RKMVERI*
Description: A cost-effective, vision-based system for accurate chess piece tracking and board digitization, poised to be a potential alternative to DGT chessboards
Keywords: open-cv, comprehensive EDA, occupancy detector
- Rhythms of the Mind** *Aug.'24 - Nov.'24, RKMVERI*
Description: An intelligent system that analyzes music consumption patterns to detect changes in mental health, supporting personalized music therapy
Keywords: Python, Kaggle, EDA, Feature engineering, fine-tuning
- Savoring Sentiments** *Jan.'24 - Apr.'24, IIT Madras*
Description: An ML model that predicts restaurant's recipe ratings by analyzing user reviews and key engagement metrics, combining textual sentiment with numerical insights.
Keywords: EDA, TF-IDF Vectorizer, LightGBM

COURSEWORK

RKMVERI Belur:

Deep Learning • Natural Language Processing • Computer Vision
• Artificial Intelligence • Time Series Forecasting • Survival Analysis
• Machine Learning • Statistics • Java & Hadoop • Econometrics
• Finance • Reinforcement Learning • DL in Cyber Security

Indian Institute of Technology Madras:

Programming in Python • Machine Learning • Tools in Data Science
• Business Data Management • Business Analytics • Statistics

ACCOMPLISHMENTS

- Badges earned:** Introduction to **GenAI** (Google Cloud), **Machine Learning Foundations** (AWS Educate) (Aug.'25)
- Udacity:** Introducing **Generative AI** with AWS (Aug.'25)
- Attended **Crest Crypto Summer School 2025**, TCG Crest (June 2025)
- NPTEL Workshop:** Time Series Forecasting using **LSTM and ARIMA** (Jun.'2025)
- Topper** in courses: Statistics, Data Structures & Algorithms (**RKMVERI**)
Tools in Data Science, Programming in Python (**IIT Madras**)
- 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)

EXPERIENCE

Research Intern

Jun.'25 - present ISI, Kolkata

Advisor- Dr. Umapada Pal & Dr. Ali Reza Alaei

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, Percepton 2025 (annual departmental tech fest) [Jan.'25]
 - Class Representative [Jul.'24 - Present]
- IIT Madras**
 - Group Leader, Student Council IITM BS [Aug.'23 - Aug.'24]