

SOHAM BHATTACHARYA

Research Intern, Indian Statistical Institute Kolkata
M.Sc. in Big Data Analytics, RKMVERI Belur

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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 Belur

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

Indian Institute of Technology Madras

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

ACHIEVEMENTS/CERTIFICATIONS

- Badges earned:** Introduction to GenAI (Google Cloud), Machine Learning Foundations (AWS Educate) (Aug.'25)
- 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, 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]