SOHAM BHATTACHARYA

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Education

Ramakrishna Mission Vivekananda Educational and Research Institute, Belur	**Jul. 2024 – present**
M.Sc. in Big Data Analytics	*CGPA : 7.87*
Indian Institute of Technology Madras	**Sept. 2021 - May 2024**
Diploma in Data Science	*CGPA : 8.53*
St. Xavier's College, Kolkata	**Sept. 2021 - May. 2024**
B.Sc. (H) in Mathematics	*CGPA : 6.72*
Don Bosco School Liluah	**Apr. 2008 - Jun. 2021**
Indian School Certificate (ISC)	*Percentage : 94.25%*
Indian Certificate of Secondary Education (ICSE)	*Percentage : 90%*

Course Projects

K8sCIFAR: Distributed Data parallelism on CIFAR-10 using Kubernetes — **Jan. 2025 - Apr. 2025**, *RKMVERI Belur*
(M.Sc. / Faculty: Mr. Champak Dutta)
Keywords: Kubernetes & PyTorch

Raag Sense: A Deep Learning Outlook to Raga Recognition in Indian Classical Music (ICM) — **Jan. 2025 - Apr. 2025**, *RKMVERI Belur*
(M.Sc. / Faculty: Dr. Soumitra Samanta)
Keywords: Dataset curation, ICM-aware feature extraction, MFCC, CNN; 96.82 % Accuracy

Chess Lens: Piece Localization and real-time chessboard digitization — **Jan. 2025 - Apr. 2025**, *RKMVERI Belur*
(M.Sc. / Faculty: Br. Bhaswarachaitanya)
Keywords: Open-cv, comprehensive EDA, Occupancy Detector; 93.75% Accuracy

Rhythms of the Mind: Detection of mental-health condition for Music Therapy using ML techniques — **Jan. 2025 - Apr. 2025**, *RKMVERI Belur*
(M.Sc. / Faculty: Br. Bhaswarachaitanya)
Keywords: Python, Kaggle, EDA, Logistic Regression, Feature Engineering, Hyperparameter Tuning; 76% Accuracy

Savoring Sentiments: Predicting Restaurant Recipe Ratings through Sentiment Analysis — **Jan. 2025 - Apr. 2025**, *IIT Madras*
(Diploma / Faculty: Dr. Ashish Tendulkar)
Keywords: EDA, TF-IDF Vectorizer, LightGBM; 93% Accuracy

Certifications

- 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)

Achievements

- Ranked 5/30 in Sem-1 at CS Dept. RKMVERI, Belur
- Topper in courses: Statistics, Data Structures & Algorithms [**RKMVERI**]
- Topper in courses: Tools in Data Science, Programming in Python [**IIT Madras**]
- 2nd Position, Automaton 2024, GDSC SXC (Apr. 2024)

Technical Skills

- Languages: Python, Java
- Developer Tools: Git, Google Analytics, AWS
- Frameworks: PySpark, Hadoop, Pregel
- Geospatial Tools: QGIS, Geopandas
- Business Intelligence & Data visualization: Excel, Google Data Studio, Power Bi, Tableau, Flourish studio, Kumu

Key Coursework

- RKMVERI: DL, NLP, CV, AI, ML, Statistics, Java & Hadoop, Big Data Computing, Econometrics, Finance, Reinforcement Learning
- IIT Madras: ML, Statistics, Business Data Management, Tools in Data Science

Positions of Responsibility

RKMVERI
- Placement Coordinator [May '25 – Present]
- Class Representative [Jul. '24 – Present]

IIT Madras
- Group Leader, Student Council [Aug. '23 – Aug. '24]