

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

(M.Sc. / Faculty: Mr. Champak Dutta)

RKMVERI Belur

Keywords: Kubernetes & PyTorch

Raag Sense: A Deep Learning Outlook to Raga Recognition in Indian Classical Music (ICM)

Jan. 2025 - Apr. 2025

(M.Sc. / Faculty: Dr. Soumitra Samanta)

RKMVERI Belur

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

(M.Sc. / Faculty: Br. Bhaswarachaitanya)

RKMVERI Belur

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

Aug. 2024 - Nov. 2024

(M.Sc. / Faculty: Br. Bhaswarachaitanya)

RKMVERI Belur

Keywords: Python, Kaggle, EDA, Logistic Regression, Feature Engineering, Hyperparameter Tuning; 76% Accuracy

Savoring Sentiments: Predicting Restaurant Recipe Ratings through Sentiment Analysis

Jan. 2024 - Apr. 2024

(Diploma / Faculty: Dr. Ashish Tendulkar)

IIT Madras

Keywords: EDA, TF-IDF Vectorizer, LightGBM; 93% Accuracy

Certifications

- 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)

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

Positions of Responsibility

RKMVERI

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

Achievements

- Ranked **5/27** 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)

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

IIT Madras

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