

# DARPAN BHATTACHARYA

M.Sc. in Big Data Analytics, RKMVERI, Belur

🌐 <https://darpan-b.github.io> @ [dbhattacharya170803@gmail.com](mailto:dbhattacharya170803@gmail.com) 📞 9123375600 📧 [darpan-bhattacharya](#) 🌐 [darpan-b](#)



## PROJECTS

- **Know Your Food: Food Identification and Nutritional Analysis Application**  
Guide: Prof. C.V. Jawahar IASc-INSa-NASI SRF 2025  
Skills: PyTorch, OpenCV May '25 – Present, IIIT Hyderabad
  - Developing a computer vision-based application for Indian food identification and nutritional analysis.
- **ChessLens: Automatic Chess Move Detection using Computer Vision**  
Faculty: Br. Bhaswarachaitanya Computer Vision (CS342)  
Skills: PyTorch, OpenCV Jan '25 – Apr '25, RKMVERI
  - Designed and implemented a system to automatically detect chess moves from board images using CV techniques.
- **K8sCIFAR: Distributed Model Training using K3s**  
Faculty: Mr. Champak Dutta Graph DB & Distributed Computing (DA244)  
Skills: Docker, K3s Jan '25 – Apr '25, RKMVERI
  - Employed K3s to enable distributed data-parallel training of models on the CIFAR-10 dataset.
- **Rhythms of the Mind: Impact of Music Tastes on Mental Health**  
Faculty: Br. Bhaswarachaitanya Machine Learning (CS230)  
Skills: Python, EDA Aug '24 – Nov '24, RKMVERI
  - Analyzed the impact of an individual's music tastes on their mental health.
  - Achieved 76.7% accuracy using Softmax Regression.
- **Personality Prediction from Bangla Handwriting**  
Guide: Dr. Chayan Halder B.Sc. Final Year Project  
Skills: Python, OpenCV Jan '24 – Apr '24, RKMVCC
  - Predicted Big Five personality traits from handwritten Bangla text.
  - Reached a minimum RMSE of 0.15 using a Random Forest Regressor.
- **Automated Bangla Character Extraction from Data Forms**  
Guide: Dr. Kaushik Roy Internship  
Skills: Python, OpenCV Sep '22 – Feb '23, WBSU
  - Developed an automated pipeline to extract Bangla characters from isolated form entries using image processing.

## COURSEWORK

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|---|--|
| • Data Structures and Algorithms (CS110)        | • Advanced Statistical Methods (DA210)             |
| • Machine Learning (CS230)                      | • Time Series and Survival Analysis (DA312)        |
| • Statistics with R (DA102)                     | • Deep Learning and NLP (DA345)                    |
| • Probability and Stochastic Processes (DA104)  | • Graph Database and Distributed Computing (DA244) |
| • Java and Hadoop (DA110)                       | • Computer Vision (CS342)                          |
| • Linear Algebra and Matrix Computation (DA109) |  |

## ACHIEVEMENTS

- Selected for Science Academies' Summer Research Fellowship Program '25, '23
- **Winner**, Turing Show – Inter-college programming contest, RKMVERI '24, '23
- **Winner**, Codethesis – Inter-college programming contest, GNIT Kolkata '24, '23
- **Top 2000**, Meta Hacker Cup (among ~20k participants) '23, '22
- **Winner**, Codefiesta – Inter-college programming contest, BESC Kolkata '22
- Qualified Zonal Computing Olympiad (ZCO) (top 100 / ~8k participants) '20
- Regionalist, ICPC for Schools (Gwalior–Pune Onsite) '19
- Codeforces: Expert (top ~7%), CodeChef: 5 star (top ~6%)

## EDUCATION

- **Ramakrishna Mission Vivekananda Educational and Research Institute (RKMVERI), Belur**  
M.Sc. in Big Data Analytics
  - 📅 2024 – Present CGPA: 6.33 (upto Sem 1)
- **Ramakrishna Mission Vivekananda Centenary College (RKMVCC), Rahara**  
B.Sc.(Hons.) in Computer Science
  - 📅 2021 – 2024 CGPA: 9.09
- **Don Bosco School, Liluah**  
ISC, ICSE
  - 📅 2008 – 2021 ISC: 93.25%, ICSE: 93%

## EXPERIENCE

- **Summer Intern**  
IASc-INSa-NASI SRF 2025
  - 📅 May '25 - Jul '25 📍 CVIT, IIIT Hyderabad
  - Computer Vision Advisor- Prof. C.V. Jawahar
- **Summer Intern**  
IASc-INSa-NASI SRF 2023
  - 📅 May '23 - Jul '23 📍 IISc Bengaluru
  - Theory CS Advisor- Prof. L. Sunil Chandran
- **Research Intern**
  - 📅 Sep '22 - Feb '23 📍 WBSU, Kolkata
  - Computer Vision Advisor- Prof. Kaushik Roy

## TECHNICAL SKILLS

- **Languages:** English (fluent), Bangla (native), Hindi (intermediate)
- **Programming:** C, C++, Java, Python, R, SQL, HTML, CSS, JavaScript
- **Other Technologies:** Linux, Hadoop, Kubernetes, Neo4j, PyTorch, OpenCV, Git,  $\LaTeX$ , Jupyter Notebook

## VOLUNTEERING

- **Volunteer**, Perceptron - RKMVERI Tech Fest Dept. of CS, RKMVERI Jan '25
- **Co-organizer, Problem Setter and Tester**, Nirdesh - RKMVCC Tech Fest Dept. of CS, RKMVCC Oct '23
- **Co-organizer, Problem Setter and Tester**, Neuroverse programming contest Dept. of CS, RKMVCC Apr '23

## HOBBIES

- Competitive Programming, Chess