

DARPAN BHATTACHARYA

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

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PROJECTS

- **Know Your Food: Food Identification and Nutritional Analysis Application**
Guide: Prof. C.V. Jawahar IASc-INSANA-SRFP 2025
Skills: PyTorch, OpenCV, FastAPI, Vue.js, Flutter May '25 – Jul'25, IIIT Hyderabad
 - Developed a zero-shot segmentation-based system for classifying Indian food.
- **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

- Data Structures and Algorithms
- Machine Learning
- Statistics with R
- Probability and Stochastic Processes
- Java and Hadoop
- Linear Algebra and Matrix Computation
- Advanced Statistical Methods
- Time Series and Survival Analysis
- Deep Learning and NLP
- Graph Database and Distributed Computing
- Computer Vision
- Multivariate Statistics
- Database Management System
- Deep Reinforcement Learning
- Econometrics & Finance
- Deep Learning for Cybersecurity

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% globally), CodeChef: 5 star (top ~6% globally)

EDUCATION

- Ramakrishna Mission Vivekananda Educational and Research Institute (RKMVERI), Belur
M.Sc. in Big Data Analytics
📅 2024 – 2026
- 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-INSANA-SRFP 2025

📅 May '25 – Jul '25 📍 CVIT, IIIT Hyderabad

Computer Vision Advisor- Prof. C.V. Jawahar

Summer Intern

IASc-INSANA-SRFP 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

SKILLS

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

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