

# DARPAN BHATTACHARYA

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## EDUCATION

<b>Ramakrishna Mission Vivekananda Educational and Research Institute</b> <i>Master of Science in Big Data Analytics</i>	<b>Jul 2024 – May 2026 (expected)</b> Howrah, WB
<b>Ramakrishna Mission Vivekananda Centenary College</b> <i>Bachelor of Science (Honours) in Computer Science   CGPA: 9.09/10.0</i>	<b>Sep 2021 – May 2024</b> Kolkata, WB
<b>Don Bosco School, Liluah</b> <i>Indian School Certificate (ISC) 2021   Percentage: 93.25%</i> <i>Indian Certificate for Secondary Education (ICSE) 2019   Percentage: 93.0%</i>	<b>Apr 2008 – Jun 2021</b> Howrah, WB

## RELEVANT MSC COURSEWORK (UPTO MAY 2025)

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

## PROJECTS AND INTERNSHIPS

<b>Predictive Modeling: Detection of mental-health condition for Music Therapy</b> <i>Project as part of ML course (CS230) at RKMVERI   Advisor: Br. Tamal mj</i>	<b>Aug 2024 – Dec 2024</b> RKMVERI
<ul style="list-style-type: none"><li>• Analysed the effect of music tastes and lifestyle choices of an individual on their mental health.</li><li>• Obtained highest prediction accuracy of 0.767 using Softmax Regression, and mean prediction accuracy of 0.752 using various regression models.</li></ul>	
<b>Personality analysis and prediction from Bangla handwritten documents</b> <i>B.Sc. Final Year Project   Advisor: Dr. Chayan Halder</i>	<b>Jan 2024 – Apr 2024</b> RKMVCC
<ul style="list-style-type: none"><li>• Analysed and predicted personality traits of an individual using different structural features of their Bangla handwriting.</li><li>• Obtained RMSE of approximately 0.15 on the entire dataset, using different regression models.</li></ul>	
<b>Monochromatic perfect matchings in graphs and <math>k</math>-uniform hypergraphs</b> <i>IASc-INSA-NASI Summer Research Fellowship Program   Advisor: Dr. L Sunil Chandran</i>	<b>May 2023 – Jul 2023</b> IISc Bengaluru
<b>Extraction of isolated Bangla characters from data forms using Python and OpenCV</b> <i>Advisor: Dr. Kaushik Roy</i>	<b>Sep 2022 – Feb 2023</b> West Bengal State University

## SKILLS

**Languages:** English (fluent), Bangla (native), Hindi (intermediate)  
**Programming:** C, C++, Java, Python, R, SQL, HTML, CSS, JavaScript  
**Other Technologies:** Linux, Hadoop, OpenCV, Git,  $\text{\LaTeX}$ , Jupyter Notebook, MS Office

## ACHIEVEMENTS

Winner, Turing Show – an inter-college programming competition organized by RKMVERI, Belur	2023, '24
Winner, Codethesis – an inter-college programming competition organized by GNIT, Kolkata	2023, '24
Top 2000 Competitors, Meta Hacker Cup	2022, '23
Winning Team, Codefiesta – an inter-college programming competition organized by BESC, Kolkata	2022
Qualified Zonal Computing Olympiad (ZCO)	2020
Qualified for Gwalior-Pune onsite regionals, ICPC for Schools	2019
“Expert” rank in Codeforces (max: 1800+), “5 star” in Codechef	

## LEADERSHIP / EXTRACURRICULAR

<i>Volunteer</i>   Perceptron 2025 - RKMVERI Tech Fest   Dept. of CS, RKMVERI	Jan 2025
<i>Co-organizer, Problem Setter and Tester</i>   Nirdesh - RKMVCC Tech Fest   Dept. of CS, RKMVCC	Oct 2023
<i>Co-organizer, Problem Setter and Tester</i>   Neuroverse - programming contest   Dept. of CS, RKMVCC	Apr 2023