Arnab Ghosh

M.Sc. in Computer Science
RKMVERI, Belur

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LinkedIn

Profile

Computer Science graduate currently pursuing an M.Sc. at RKMVERI, Belur, with a strong interest in research and problem-solving. Experienced in machine learning, data analysis, and digital image processing, focusing on real-world applications. Continuously seeking opportunities to enhance analytical and programming skills through hands-on projects.

Education

- **M.Sc. in Computer Science - RKMVERI, Belur** *2024-26*
  - **Coursework :** Probability Theory, Data structure with Python, Mathematical Method- Analysis, Machine Learning, Algorithms, Linear Algebra and its application, Operating System, DBMS .
- **B.Sc. in Computer Science - Ramakrishna Mission Residential College, Narendrapur [CGPA - 8.68]** *2021-24*
  - **Coursework :** Design and Analysis of Algorithm, Data Structure With C, Probability ,Digita Image Processing.
- **Class XII - Jawahar Navodaya Vidyalaya, Durgapur [Percentage: 93.6%]** *2019-21*
- **Class X - Jawahar Navodaya Vidyalaya, Durgapur [Percentage: 93.8%]** *2019*

Personal Projects

- **Classification and Comparison of Supervised Machine Learning Algorithms Based on UCI Heart Disease Dataset (Course Project)** *Nov 2024 - Dec 2024, RKMVERI*
  - Implemented machine learning models for heart disease prediction using the UCI dataset.
  - Performed data preprocessing, feature engineering, and model evaluation.
  - Supervised by Prof. Tamal Mj.

  Tools : Python, NumPy, scikit-learn, Matplotlib, Pandas.
- **A Wavelet-Based Approach for Authenticating Medical Images and Extracting Patient Information (B.Sc. Research Project)** *Nov. 2023 - April 2024, RKMRC*
  - Designed a digital watermarking system to authenticate medical images and ensure data integrity.
  - Implemented imperceptible watermark embedding and extraction to ensure image integrity and authenticity for security.
  - Implemented methods like Discrete Wavelet Transform (DWT), Histogram Shifting, and Arnold Cat Map.
  - Validated image authentication performance using MSE, PSNR, and NCC, ensuring robustness and imperceptibility of embedded watermarks.

  Tools : Python, OpenCV.

Technical Skills and Interests

Languages : Python, C, Java, SQL, HTML, CSS.

Python Libraries : NumPy, Pandas, Matplotlib , Seaborn.

Tools: Oracle Database, MySQL Database

Achievements

- MPST Entrance Exam AIR-6 Conducted by Indian Association for the Cultivation of Science

Positions of Responsibility

- **Envision, RKMRC(Instructor)**
  - Instructor at Envision, our college tech fest, guiding tech activities and projects during the event.