

RAJARSHI SAHA

MSc Computer Science Student | BSc in Computer Science

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My passion is exploring emerging technologies to develop innovative solutions that address real-world challenges, improve quality of life, and positively impact communities.

ONGOING PROJECTS

- Smart Contract Development on Blockchain using Time Series Forecasting
 - Creating smart contracts to automate agreements on blockchain, ensuring secure transactions.
 - Utilizing time series forecasting for trend prediction, enhancing decision-making and contract actions.
- Ek-Nojore: Bengali News Headline Generation using Auxiliary Information
 - Developing a system to generate Bengali headlines using NLP techniques.
 - Analyzing article content to produce concise, contextually accurate headlines.

COMPLETED PROJECTS

- Dynamic PDF Interaction and Conversational AI Ecosystem | Flask | LLM | Llama-2 | Mistral-7B
 - Implemented NLP techniques for accurate extraction and understanding of PDF content.
 - Developed conversational models to provide relevant responses based on PDF data.
 - Enhanced chatbot performance through iterative feedback and optimization.
- Ensemble Learning in Cardiology Prediction | Python | Machine Learning | Ensemble Techniques | Flask | Html | Streamlit
 - Developed methods for combining predictive models in cardiology.
 - Evaluated ensemble methods using key performance metrics.
 - Applied and validated ensemble models on cardiology data.
- Portfolio Development with Full Stack Implementation | HTML | CSS | JavaScript | Node.js
 - Designed a responsive portfolio frontend using HTML, CSS, and JavaScript.
 - Built backend functionalities with Node.js, including form handling and project management.
 - Optimized for compatibility across devices and browsers.
- Perspective Panorama: Dynamic Camera View with OpenGL | Python | Computer Graphics | OpenGL
 - Developed real-time camera view adjustments in a 3D environment using OpenGL.
 - Implemented dynamic view transformations and advanced graphics rendering.
 - Created interactive visual tools to demonstrate and control camera perspectives.

TECHNICAL SKILLS

- Programming Languages: Python, C, Java, JavaScript
- Frontend Development: HTML, CSS, Bootstrap, React, Streamlit, jQuery
- Backend Development: Flask, Node.js
- Databases: MySQL, SQL, Neo4j
- Libraries & Frameworks: NumPy, Pandas, Scikit-learn, PyTorch
- Models: Transformers, LLMs, SentenceTransformers
- Basic Knowledge: Android

PUBLICATION

- Blind image authentication using singular value decomposition with enhanced robustness by augmenting hamming code," *International Journal of Computers and Applications*, 2024. Available here.

EDUCATION

MSc in Computer Science
Ramakrishna Mission Vivekananda Educational and Research Institute

Aug 2023–present Belur, India

BSc in Computer Science
Ramakrishna Mission Residential College Narendrapur (Autonomous)

sep 2020–Jun 2023 Kolkata, India

CGPA 9.27/10
Higher Secondary (10+2) CBSE - PCMCS
Ramakrishna Mission Vidyapith Deoghar

July 2020 Jharkhand, India

Percentage 91.40%
Secondary (10) WBBSE
Ramakrishna Mission Vidyalaya Narendrapur

May 2018 Kolkata, India

Percentage 87.71%

AREA OF INTEREST

- Web Development
- Database Management
- Transformer & LLMs

RESPONSIBILITIES

Design Team Member
Perceptron Tech-Fest RKMVERI
2024-2025 Belur, India

Member of Cultural Committee
Cultural Committee,RKMRC Narendrapur
2021-2023 Kolkata, India

Member of Vidyarthi Sansad
Student Representative,RKMV Narendrapur
2015-2018 Kolkata, India

HOBBIES

Tabla Badminton Football Cricket

LANGUAGES

English Bengali Hindi