

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.

COMPLETED 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.
- 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
- 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

CGPA 7.02/10 (1st year)

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