

RITANKAR JANA

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Education

Academy of Technology

Bachelor of Technology in Computer Science (CGPA: 8.99/10)

2021 – 2025

Hooghly, West Bengal

W.W.A Cossipore English School

I.S.C (Percentage: 89.25%)

2018 – 2020

Kolkata, West Bengal

W.W.A Cossipore English School

I.C.S.E (Percentage: 90.5%)

2018

Kolkata, West Bengal

Relevant Coursework

Data Structures DBMS Operating System Advanced Algorithms Artificial Intelligence Machine Learning

Projects

GadgyHub Application | React, Node.js, Express, MongoDB, Redis, TailwindCSS [Code Link](#)

January 2025

- Developed a modern e-commerce platform with advanced technologies like **Redis** for caching, **Cloudinary** for image management, and **Stripe** for secure payment processing.
- Implemented a dynamic and responsive UI using **React** with **TailwindCSS**, **Zustand** for state management, **Framer Motion** for animations, and **React Confetti** for enhanced user experience.
- Designed and tested **RESTful APIs** for authentication, product management, cart operations, and payments, utilizing tools like Postman and **MongoDB Compass** for optimization.

Advanced Authentication System | Node.js, Express, MongoDB, Nodemailer [Code Link](#)

October 2024

- Developed a modular authentication system featuring user signup, email verification, secure login, logout, and password reset functionality using **Node.js**, **Express**, and **MongoDB**. Incorporated **JWT** for token-based authentication, ensuring robust account management and security.
- Integrated advanced features like **email notifications for verification and password resets** using **Nodemailer**, with tokens managed securely for expiration. Designed reusable components like token generators, cookie handlers, and email templates to enable seamless integration into larger applications such as e-commerce or enterprise platforms.

TriNayan: AI-Powered Currency Detection | YOLOv8, (ViT), OpenCV [Code Link](#)

June – September 2024

- Developed an AI-powered solution using **fine-tuned YOLOv8** and **Vision Transformers (ViT)** to assist visually impaired individuals in detecting and recognizing currency notes, achieving an **accuracy of around 70%**.
- Enhanced user interaction and independence by providing real-time annotated images and boosting **reliability by 75%**, leveraging tools like OpenCV and Python.

MoodLens : Emotion Recognition System | CNN, OpenCV, Python [Code Link](#)

August – October 2023

- Enhanced emotion recognition accuracy by leveraging custom **CNN architectures** like **VGG16** and **ResNet50v2**, achieving an **optimal classification accuracy of 66%**.
- Improved model robustness through **image augmentation and class weighting techniques**, addressing class imbalance within the **FER-2013 dataset** and **increasing accuracy by 10%**.

Technical Skills and Interests

Languages: Java, Python, Javascript

Database: MySQL, Oracle, MongoDB, Redis

ML/DL Libraries: Scikit-Learn, Pandas, Matplotlib, LangChain, NumPy

Web Frameworks: Node.js, Express, React

Soft Skills: Teamwork, Communication, Problem solving, Adaptability, Leadership

Area of Interest: Data Science, Artificial Intelligence, Generative-AI

Extracurricular Activities and Achievements

Participated in HaRBInger 2024- RBI Hackathon

May 2024 – Oct 2024

Talent Next Java Certification from Wipro

May 2024 – Sept 2024

Open-source Contributions in Hugging Face

2024