

RITANKAR JANA

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Education

Academy of Technology

2021 – 2025

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

Hooghly, West Bengal

W.W.A Cossipore English School

2018 – 2020

I.S.C (Percentage: 89.25%)

Kolkata, West Bengal

W.W.A Cossipore English School

2018

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

Kolkata, West Bengal

Relevant Coursework

Data Structures DBMS Operating System Advanced Algorithms Artificial Intelligence Machine Learning

Projects

Stokis | Python, Scikit-Learn, Transformer [Code Link](#)

Jan 2024 – Present

- Developed an advanced stock prediction platform leveraging external data sources like **Yahoo Finance** to enhance prediction models with historical data and technical indicators.
- Implemented a **CNN-BiLSTM model** achieving an **R² value of 0.95** for stock price prediction, significantly improving platform functionality.
- Fine-tuned a **BERT-based model (FinBERT)** on a custom Hugging Face dataset to achieve **97.2% accuracy** for news sentiment classification.
- Currently integrating sentiment analysis into the prediction model to further improve accuracy and expand platform capabilities.

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

January 2025

- Engineered a modern e-commerce platform with advanced technologies like **Redis for caching**, **Cloudinary for image management**, and **Stripe for secure payment processing**.
- Crafted an interactive and responsive UI leveraging **React** and **TailwindCSS**, employing **Zustand** for state management while incorporating **Framer Motion** animations and **React Confetti** for celebration effect to enhance user engagement
- 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

- Built 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

- Pioneered 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%**.
- Improved user engagement and autonomy by delivering real-time annotated images, increasing reliability by **75%**, using tools such as OpenCV and Python

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

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