

CHINMAYA RANJAN SWAIN

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EDUCATION

Bachelor of Computer Applications (BCA)
REC

2024 - 2027

BBSR, Odisha

TECHNICAL SKILLS

- **Languages:** Python, JavaScript (ES6+), C++, MongoDB, SQL, HTML5, CSS3.
- **Frameworks & Libraries:** MERN Stack (MongoDB, Express.js, React, Node.js), Pandas, NumPy, Scikit-Learn, TensorFlow/Keras (LSTM), OpenCV.
- **Developer Tools:** Git, GitHub, VS Code, Postman, Command Line Interface (CLI).
- **Core Concepts:** Data Structures Algorithms, Object-Oriented Programming (OOP), RESTful APIs, Computer Vision, Stock Market Analysis.

KEY PROJECTS

Stock Market Trend Prediction Model — *Python, Machine Learning, LSTM* Feb - jun 2026

- Developed a predictive deep learning model using **Long Short-Term Memory (LSTM)** networks to forecast stock price movements based on historical time-series data.
- Engineered data pipelines using **Pandas** to clean financial datasets and normalize features for optimal model convergence.
- Implemented visualization tools using **Matplotlib** to plot real-time predicted vs. actual trends, aiding in volatility analysis.

Smart-Queue Grocery System — *MERN Stack (MongoDB, Express, React, Node)* dec 2025 - Feb 2026

- Built a full-stack retail management system designed to reduce checkout wait times through an intelligent queuing algorithm.
- Developed a responsive **React** frontend for customer interaction and a **Node.js/Express** backend to handle real-time inventory updates.
- Integrated **MongoDB** for scalable data storage of product inventory and user transaction history.

Automated Day Tracker & Login Alert — *Python, Telegram Bot API* Feb 2026

- Scripted a Python automation tool to track daily login activities and enhance security awareness.
- Integrated the **Telegram Bot API** to send instant push notifications to a mobile device whenever specific system triggers were activated.
- Wrote comprehensive documentation and a README file to facilitate open-source contribution and setup.

Delay & Reverb Time Calculator — *Python, Desktop Application* Jan 2026

- Engineered a desktop GUI application to calculate complex audio delay and reverb parameters for sound engineering tasks.
- Packaged the Python script into a standalone executable file, ensuring cross-platform compatibility without requiring a Python environment.

Hand Sign Recognition System — *Python, OpenCV, Computer Vision* working on it

- Created a computer vision prototype capable of recognizing hand gestures and translating them into digital text in real-time.
- Utilized **OpenCV** for image processing and contour detection to accurately map hand landmarks.

CERTIFICATIONS & ACHIEVEMENTS

- **Internship/Coding:** python developer internship
- **Coursework:** Database Management, AI Fundamentals).