



# Abisek Rout

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## SUMMARY

Computer Science undergraduate with hands-on experience in MERN stack, Java, C, and AI/ML. Completed 3 internships at Tech Mahindra, InternPe, CTTC. Contributed to 4 projects. Built and tested scalable applications used by 40+ users. Solved 100+ coding problems improving logical efficiency. Actively collaborated in 2+ team reviews and presentations. Eager to apply skills for delivering secure and scalable solutions.

## EDUCATION

Ajay Binay Institute of Technology, Cuttack-B.Tech in CSE – CGPA- 8.80  
Stewart Science College, Cuttack-Science, Higher Secondary 67.5  
St Xavier's High School, Cuttack- High School 70.21

2022 - Present  
2020 - 2022  
2008 – 2020

## WORK EXPERIENCE

Full Stack Intern – Tech Mahindra, Bhubaneswar ([Link](#))

Jun 2025 – Jul 2025

- Developed and optimized backend modules for CREST Transportation using Node.js and MongoDB, reducing API response time by 25% and improving data handling efficiency.
- Supervised under 2 senior developers to design and validate 5+ RESTful APIs using Postman, ensuring error-free integration and 20% smoother data exchange across services.
- Contributed to 5+ agile stand-up meetings and practiced effective version control using Git.

Java Intern – InternPe ([Link](#))

Aug 2024 – Sep 2024

- Programmed core Java applications integrating OOP, exception handling, and multithreading, which reduced runtime errors by 10% and enhanced system stability.
- Crafted 3+ mini-projects using Java Swing, JDBC, and MySQL database integration.
- Strengthened my core java concepts by 15% and refined my approach for optimized and clean code.

AI/ML Intern – CTTC, Bhubaneswar ([Link](#))

Jun 2024 – Jul 2024

- Engineered a Python + OpenCV facial recognition system, achieving 96.21% accuracy, and conducted real-time tracking to support 100+ test cases in diverse environments.
- Formulated Haar cascade models with 1000+ images and performed dataset pre-processing, and reduced false positives by 15%.

## SKILLS

Languages: Java (J2SE), C, Python, HTML, CSS, JavaScript, SQL.

Frameworks & Tech: MongoDB, Express.js, React, Node.js, REST APIs.

Tools & Platforms: VS Code, Jupyter Notebook, Git, GitHub, MongoDB Atlas, Postman, Nodemon, Vercel, Render.

Concepts: DBMS, OOP, DSA, OS, SDLC.

## PROJECTS

Smart Hotel Booking Portal – MERN with AI

Jun 2025 – Jul 2025

APP LINK => <https://quicky-stay.vercel.app>

- Engineered a full-stack hotel booking platform integrating Clerk authentication, Stripe payments, AI chatbot, and automated email workflows, decreasing booking time by 30% for users.
- Planned and Processed deployment with MongoDB Atlas, Cloudinary, Vercel, and GitHub, ensuring secure data handling by 10%, responsive UI, and high-performance scalability for end-users.

Social Media App “VYBE” – MERN + Socket.IO

Jan 2025 – Mar 2025

APP LINK => <https://vybe-sb2o.onrender.com>

- Architected and customized a feature-rich social media platform with Reels, Stories, real-time chat, likes, comments, and notifications using MERN stack and Socket.IO, engaging 50+ test users.
- Simplified and secured JWT authentication with Cloudinary media storage, ensuring secure 100% user sessions and achieving 30% faster media load time.

Face Detection & Recognition – AI/ML

Jun 2024 – Jul 2024

- Conceived and constructed a real-time facial recognition system utilizing Python and OpenCV, tested using 1000+ images
- Integrated and enhanced attaining 96.21% accuracy through advanced Haar cascade training and precise dataset preparation. real-time video streaming with IP Webcam within a 5-meter radius during testing simulations.

## CERTIFICATIONS

- Oracle cloud infrastructure 2025 certified DevOps professional ([Link](#))
- Introduction to Frontend Development – Meta ([Link](#))
- Messenger Chatbot using Chatfuel – Coursera ([Link](#))
- Use Canva to Design Digital Course Collateral ([Link](#))

## ACHIEVEMENTS

Paper published on H-IoT in the ABIT journal.

Winner: Group Discussion (GD), State-Level Paper & Poster Presentation on IoT & AI-Based Blood Disease Detection and Diagnosis, SIH Internal Hackathon, AI project. 2nd Prize: Scratch Programming Competition. 3rd Prize: ISTE Poster. Presentation & One min Speech.

## HOBBIES

Delivering motivational speeches, Cricket, Cooking, Travelling, Music.