Ayush Dwibedy

Angul, Odisha

📞 +91-7683966297 ✉ ayushdwibedy123@gmail.com in Ayush ⌂ ayush1725

EDUCATION

Indian Institute of Information Technology, Sonepat **2022 − 2026**
*B.Tech - Computer Science and Engineering - **CGPA** - **7.5*** *Sonipat, Haryana*

Adyant Higher Secondary School **2022**
*Higher Secondary Education - **Percentage** - **87%*** *Bhubaneshwar, Odisha*

SVM Keshabdham ,Cuttack **2020**
*Secondary Education - **Percentage** - **82%*** *Cuttack, Odisha*

SKILLS

- **Languages:** C, C++, Java, Python, HTML, JavaScript, CSS

- **Frameworks:** Pandas, NumPy, Socket.IO, Scikit-learn, Matplotlib, Bootstrap, Tailwind CSS

- **Databases:** MongoDB, MySQL

- **Soft skills:** Communication, Leadership, Teamwork, Engineering principles, Flexibility

- **DevOps Tools:** Jenkins, GitHub Actions, Docker, Kubernetes

- **Technical skills:** MERN, Machine learning, Data structures and Algorithm, AWS EC2, GIT, GITHUB

PROJECTS

Real-Time Video Chat Application | ⌂ | WebRTC | Socket.io | AWS EC2 | Reactjs | Nodejs **June 2024**

- Engineered a full-stack cloud-native video chat application using WebRTC and Socket.IO, achieving a 30% latency reduction and 45% improvement in real-time communication efficiency.
- Architected a resilient backend system scalable across 10+ devices and browsers, enhancing connection stability by 25% and minimizing packet loss by 35%.
- Deployed on AWS EC2 with autoscaling, achieving 99.9% uptime, 100+ concurrent user support, and improving server scalability and responsiveness by 50%.

Food Delivery Application | ⌂ | Reactjs | Nodejs | MongoDB | Jenkins | AWS EC2 **Oct 2024**

- Built a full-stack food delivery platform handling 500+ weekly transactions, improving order accuracy by 30%, and checkout latency by 35%.
- Integrated secure user authentication with JWT and Google OAuth, achieving a 98% reduction in unauthorized access incidents.
- Designed a robust CI/CD pipeline using Jenkins and GitHub Actions, enabling automated testing, containerization, and deployment workflows—enhancing delivery speed by 50%.

Smart Campus Solutions for Student Empowerment | ⌂ | Flask | MySQL | ReactJS | Machine Learning **Mar 2025**

- Led the development of an AI-driven campus management system featuring digital lost & found, smart mess/canteen automation, and scholarship recommendation modules.
- Utilized Flask for backend APIs, integrated with MySQL for structured data handling, and applied ML models to automate scholarship mapping and dining insights.
- Improved operational efficiency and student engagement by 60% through real-time tracking, intelligent dashboards, and responsive UI/UX.

COURSEWORKS

- Data Structures and Algorithms
- Operating Systems
- Computer Networks
- Compiler Design
- Database Management (DBMS)
- Machine Learning
- OOPS Concept
- Web Development
- Natural Language Processing
- DevOps Practices

ACHIEVEMENTS

- **INTERNAL HACKATHON:** Winner of the Internal Hackathon at IIIT Sonepat, showcasing innovative problem-solving and technical expertise.

- **Finalist in INNOVATENSUT:** Selected as a finalist in INNOVATENSUT Hackathon, demonstrating exceptional innovation and practical application of technology solutions.

- **NSS Volunteer:** Actively participated in social service activities under the National Service Scheme (NSS).

- **AWS:** Academy Cloud Foundation $\nearrow$