



Aditya Kumar Pattanayak

Roll No.: B423003

Department: Information Technology

Degree: Bachelor of Technology

Institution: International Institute of Information Technology, Bhubaneswar

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Education

- **International Institute of Information Technology, Bhubaneswar** *Bachelor of Technology in Information Technology* *Aug 2023 – Jun 2027 (Expected)*
CGPA: 7.61/10.0
- **DAV Unit 8, Bhubaneswar** *Senior Secondary (XII), Bhubaneswar, Odisha* *Jun 2020 – May 2022*
Percentage: **94.8%**

Open Source Contributions

- **AsyncAPI Community**
 - **Improved CI efficiency** by using a fork with predicate-quantifier fix for paths-filter action, optimizing conditional workflows. 🔗
 - **Reduced redundant test runs** by skipping bot-generated and non-critical PRs, cutting unnecessary CI workload. 🔗
- **UI/UX Enhancements and Bug Fixes**
 - Integrated Local Storage, Responsive CSS, and Response Regeneration in Wife-Predictor-v2. 🔗
 - Resolved Navbar dropdown, navigation, and dark mode alignment issues in Chanakya-Niti. 🔗
 - Added minimum character limit validation for feedback input in QR-Code-Generator. 🔗

Projects

- **PrivacyGuard** 🔗
Built a privacy-first, on-device anti-phishing browser extension with ML-based threat detection.
 - Trained a custom **TensorFlow.js model** on 100k+ URLs (88.8% accuracy) for phishing detection with **sub-500ms analysis time**.
 - Deployed a **multi-tier alert system** using URL lexical features and risk scoring logic (red/yellow/green thresholds).
 - Integrated **homograph detection**, heuristic URL analysis, and mock **P2P threat sharing** for layered protection.
 - Focused on complete **on-device processing** to ensure zero server-side data leakage.
 - **Technologies Used:** TensorFlow.js, JavaScript, Chrome Extensions API.
- **VibeCraft** 🔗 🔗
AI-powered creative platform built during Devpost Hackathon; featured as “Project of the Week” on Peerlist.
 - Developed a GAN-based art generator for neurodiverse users and led feature implementation for **collaborative art sessions**.
 - Attracted over **1000+ users**; optimized user experience with dynamic UI adjustments.
 - **Technologies Used:** Next.js, Prisma, OpenCV, StyleGAN, Python.

Technical Skills and Interests

Languages: TypeScript, C++, C#, Python, JavaScript, SQL, HTML, CSS

Frameworks & Libraries: Next.js, React.js, Node.js, Express.js, TensorFlow.js, XMTP, Socket.io

Developer Tools: Git, GitHub, Docker, Redis, MongoDB, Prisma, Postman, GitHub Actions, StyleGAN

Cloud & Deployment: Vercel, Google Cloud Platform (GCP)

Areas of Interest: System Design, DevOps, Web3 (Solana, XMTP), GenAI, Machine Learning

Relevant Coursework: Data Structures & Algorithms, Operating Systems, DBMS, OOP

Achievements

- **Winner** Devpost “The Dev Challenge” Hackathon; Featured Project **VibeCraft** among 200+ entries.
- **2nd Runner-up** COMPOSIT Case Study, **IIT Kharagpur**; 3rd place nationally among 100+ teams.
- **5th Place** Datamatics Hackathon, **IIT Bombay**; 156 teams, built secure Gmail-LeapLeap integration.
- **Top 3 Category Winner** AmpliCode Hackathon; 13th overall (925 participants) for **PrivacyGuard**.
- **Top 3.8%** JEE Mains 2023 among 1.2M+ candidates.