

# Ritesh Sahoo

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## EDUCATION

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### Siksha 'O' Anusandhan (ITER)

Aug. 2024 – Present

*B.Tech in Computer Science & Engineering (2nd Year)*

Bhubaneswar, Odisha

- **IoT Lead**, ITER Robotics Club
- **Achievements**: 3rd Advaita Hackathon (IIIT Bhubaneswar) | Top 10 Nirman 24hr Hackathon (Silicon University, Nov 2025) | SIH 2025 Top 50
- Relevant Coursework: Data Structures, Algorithms, DBMS, Web Development, IoT

## LEADERSHIP

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### ITER Robotics Club

Aug. 2024 – Present

*IoT Lead*

Bhubaneswar, Odisha

- Leading the IoT division and conducting workshops for 50+ club members
- Organizing technical events and mentoring juniors in embedded systems and networking

## PROJECTS

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### inSpace - Local Watch Together Platform

2025

- Developed a privacy-focused local broadcasting platform for synchronized video watching
- Implemented real-time communication using WebRTC and socket programming

### Anonymous Local File Sharing System

2024 – 2025

- Peer-to-peer file sharing application using raw socket programming (zero cloud storage)
- Complete anonymity with high-speed transfers on local networks

### Spotify Clone using YouTube API

2024

- Full-stack music streaming web app with search, playlists, and playback features
- Integrated YouTube Data API for audio streaming and metadata

### PREG Title Detector

2024

- Machine Learning based tool for generating optimized YouTube-style video titles
- Predicts click-through rate using natural language processing

## SKILLS

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**Languages & Frameworks** : Python, JavaScript (React.js), Node.js, Express.js, HTML/CSS

**Full Stack** : MERN Stack (MongoDB, Express, React, Node.js)

**Databases** : MongoDB, PostgreSQL, MySQL

**Machine Learning & AI** : NLP Models, YOLOv8, Ollama, Computer Vision

**Tools** : Git/GitHub, Figma, Postman, Notion, Trello, Miro, DaVinci Resolve