

# SWAPNANEEL PATRA

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## EDUCATION

### Indian Institutes of Technology (IIT)

*Master of Technology in Artificial Intelligence & Data Science Engineering*

Patna, India

Aug. 2025 – Present

### Kalinga Institute of Industrial Technology (KIIT)

*Bachelor of Technology in Computer Science and Engineering*

Bhubaneswar, India

June 2019 – Aug. 2023

- GPA 8.38/10.0
- **Coursework:** Data Structures and Algorithms, Design and Analysis of Algorithms, Machine Learning, Artificial Intelligence, Probability and Statistics, Operating Systems

## EXPERIENCE

### Junior Software Engineer

*EPAM Systems*

May 2024 – Sep. 2024

Hyderabad, India

- Collaborated within an Agile team to deliver a scalable e-commerce web application, implementing CI/CD pipelines for iteration.
- Designed secure user authentication and role-based access control (RBAC), enhancing data privacy and platform security.
- Developed a dynamic product catalog with advanced search and filtering, improving user engagement and product discoverability.
- Built an admin module for streamlined management of user access, orders, and product listings.
- Created vendor tools for efficient product listing management and supplier onboarding.

### Software Engineering Intern

*HighRadius Corporation*

Jan. 2022 – Apr. 2022

Bhubaneswar, India

- Collaborated on building a B2B invoice management system to streamline payment predictions and improve operational efficiency.
- Built and trained a machine learning model, achieving 90.43% accuracy in forecasting payment periods for B2B companies.
- Streamlined backend data retrieval using servlets and the MVC design pattern, ensuring a responsive and user-friendly interface.
- Created an intuitive Receivables Dashboard with structured grid visualization, making data more accessible and actionable.
- Implemented robust CRUD functionalities and seamless pagination, enhancing navigation and data management for users.

## PROJECTS

### Open Source Contributions

- **GitLab CLI (Go):** Implemented member management and GPG key features (add/remove and add/list/get/delete commands) to enable flexible user access control; merged PRs #2451 and #2456.
- **Gemini CLI (TypeScript):** Fixed chat-history consolidation to correctly merge multi-part streaming responses, preventing role desynchronization and incorrect text concatenation; merged PR #6235.
- **BrainGlobe Atlas API (Python):** Refactored atlas-generation pipeline to remove implicit orientation transforms, simplified metadata templates, and added tests/docs to improve reproducible atlas builds; merged PR #555.

## TECHNICAL SKILLS

**Languages:** Python, Go, C/C++, Java, JavaScript, TypeScript

**Frameworks & Libraries:** PyTorch, TensorFlow, scikit-learn, pandas, NumPy, FastAPI, Flask, React, Next.js, Node.js

**Developer Tools / DevOps:** Git, Docker, Kubernetes, GitLab CI, GitHub Actions, VS Code

**Other:** REST APIs, Microservices, CI/CD, Unit testing (pytest, JUnit), Jupyter, Linux