

Nayan Kar

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EDUCATION

Indian Institute of Technology, Patna

2023 – Present

Bachelor of Science in Computer Science and Data Analytics

CPI: 8.03 / 10

WBCHSE (Class XII), 2022

Percentage: 88.9%

WBBSE (Class X), 2020

Percentage: 83.14%

EXPERIENCE

Research Intern (AI Full-Stack), IIT Patna

1st Jun 2025 – 30th sep Advisor: Dr. Joydeep Chandra

- Designed and deployed full-stack solutions using MERN stack with REST APIs and MongoDB optimizations.
- Building AI agents leveraging LLMs for autonomous workflow automation and decision-making.
- Integrated ML models into full-stack systems for data-driven research applications.

PROJECTS

Full-Stack ORM Platform — Brand Monitoring Dashboard Frontend — Backend — **Stack:** Next.js, Node.js, Express, MongoDB

- Built real-time sentiment analytics and visualization platform integrating scraping modules.

DevTinder — Developer Networking Platform Web — Server — **Stack:** React, Node.js, WebSockets, MongoDB

- Created real-time developer match and chat platform with JWT-based authentication.

AI Student Learning Analytics & Resource Recommendation System — FastAPI, React, Python Frontend — Backend

- Developed an end-to-end ML-powered dashboard analyzing student engagement, performance trends, and resource usage. Implemented collaborative filtering using NMF on 10M+ OULAD interaction logs to recommend personalized learning resources. Built a modern React UI with autosuggest search, analytics charts, and interactive modal insights.

E-Commerce Profitability Prediction — Python, ML GitHub

- Built regression models predicting product profitability from e-commerce transaction data.

TECHNICAL SKILLS

Languages: Python, C++, JavaScript , **Frontend:** HTML, CSS, React, Next.js , **Backend:** Node.js, Express.js, REST APIs, WebSockets , **Database:** MongoDB,SQL

ML Tools: NumPy, Pandas, Scikit-learn, Matplotlib, LangChain, Deep Learning **Others:** Git, GitHub, VS Code, Postman, DSA

CERTIFICATIONS

Decode DSA in C++ – Physics Wallah (PW)

Sept 2025

Completed 200+ coding challenges and mastered advanced DSA concepts.

Certificate: View Certificate

Oracle Certified Foundations Associate – AI Foundations

Sept 2025

Earned certification covering AI fundamentals and applied model understanding.

Certificate: View Certificate