Nayan Kar

Roll No.:2312res1014
Your Course
Computer Science and Data Analytics
Indian Institute Of Technology, Patna

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.S (CSDA)	Indian Institute of Technology, Patna	7.43 (Current)	2023-Present
Senior Secondary	WBCHSE Board	88.9%	2022
Secondary	WBBSE Board	83.5%	2020

EXPERIENCE

- **Research Internship, IIT Patna (Advisor: Dr. Joydeep Chandra)** *June 2025 – Present*
  AI & Full-Stack Research Intern Patna, India
  – Orchestrated the end-to-end development of full-stack features using the MERN stack; architected scalable RESTful APIs and optimized MongoDB schemas to boost application performance and reliability.
  – Developing autonomous AI agents using advanced Large Language Model (LLM) frameworks to automate complex workflows and decision-making processes.

PROJECTS

- **Full-Stack ORM Platform**
  A platform for real-time brand monitoring and sentiment analysis with a web scraping engine. Frontend | Backend
  – **Tech Stack**: Next.js, Node.js, Express.js, MongoDB, Web Scraping, REST APIs, JWT

- **DevTinder**
  A social platform for developers to connect, collaborate on projects, and chat in real-time. Web App | Server
  – **Tech Stack**: React, Node.js, Express.js, MongoDB, Web Sockets

- **Movie Recommender System**
  A machine learning model that suggests movies based on content-based filtering. Github
  – **Tech Stack**: Python, Pandas, Scikit-learn, Machine Learning

- **E-Commerce Profitability Prediction**
  A data-driven model to predict e-commerce product profitability using ML algorithms. Github
  – **Tech Stack**: Python, NumPy, Pandas, Machine Learning

- **Hospital Management System**
  A console-based application for managing patient records and hospital resources. Github
  – **Tech Stack**: C++, Data Structures

TECHNICAL SKILLS

- **Languages:** Python, C++, JavaScript
- **Frontend Development:** HTML5, CSS3, JavaScript, React, Next.js, UI/UX
- **Backend Development:** Node.js, Express.js, REST APIs, Web Sockets
- **Databases:** MongoDB
- **Data Science & ML:** Machine Learning, Deep Learning, NumPy, Pandas, Matplotlib
- **Tools & Core Skills:** Git, Github, Data Structures & Algorithms (DSA)

CERTIFICATIONS

- **Oracle Certified Foundations Associate, AI Foundations**
  Oracle University September 2025
  – Achieved certification demonstrating foundational knowledge in Oracle Cloud Infrastructure (OCI) for AI services[cite: 5].