

Rudradeb Nandi

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PROFESSIONAL SUMMARY

B.Tech Computer Science graduate student with hands-on experience in Python backend development, specializing in Flask and MySQL. Built REST APIs for web and mobile integration, using version control tools like Git. Adept at writing clean, modular, and production-ready code.

SKILLS

Programming Languages:	Java, Python, C
Backend Technologies:	Django, REST API, Flask
Developer Tools:	Git, VS Code
Libraries:	Pandas, NumPy, Scikit-Learn, Matplotlib, Seaborn, TensorFlow
Databases:	MySQL, PostgreSQL
Frontend Technologies:	HTML, CSS, JQuery
Operating Systems:	Windows, Linux
Knowledge:	AWS, NLP, XAI (Explainable AI), Computer Network, Machine Learning, AI/ML Frameworks, API Integration
Soft Skills:	Problem-solving, Willingness to learn, Communication Skills, Deductive reasoning, Team Collaboration

EXPERIENCE

Machine Learning Intern

Navodita Infotech, Feb 2025 – March 2025

- Developed an AI-driven image classification model (Dog vs Cat Classification) using CNNs, TensorFlow, and Scikit-learn, leveraging data augmentation and XAI techniques for enhanced accuracy.

Python Developer Intern

Innobyte Services, July 2025 – Aug 2025

- Developed a Personal Finance Management App in Python with modules for income/expense tracking, budgeting, and financial reporting using SQLite.

EDUCATION

B.Tech in Computer Science and Engineering

Bankura Unnayani Institute of Engineering

2021 – 2025

CGPA: 8.44

Higher Secondary (Class XII)

Bankura Town High School

2019 – 2020

Percentage: 74.6%

KEY PROJECTS

Lymphography Prediction Using XAI – Machine Learning

[\[GitHub\]](#)

- Developed a machine learning model using Random Forest with LIME explainability to classify lymphographic conditions into 4 classes, achieving **91% accuracy** on a dataset of 148 samples.
- Tech Stack: Python, Scikit-learn, Pandas, NumPy, Matplotlib, LIME, ADASYN, Jupyter Notebook.

E-Commerce Web Application

[\[GitHub\]](#)

- Full-stack e-commerce platform with secure authentication, product management, and real-time order tracking — achieving **30% faster page load times** and **20% improvement in database query performance**.

Emotion Detection using NLP

[\[GitHub\]](#)

- Built an NLP-based text classification model using TF-IDF and achieved **89% accuracy** using Logistic Regression for emotion prediction from textual data.