Rudradeb Nandi

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PROFESSIONAL SUMMARY

A Computer Science & Engineering graduate skilled in Python, Django, SQL, Java, and OOP, with hands-on experience in ML, data tools, and explainable AI (LIME). Proficient in full SDLC and building scalable software solutions. Passionate about developing clean, efficient, and user-focused applications.

SKILLS

Programming Languages:	Java, Python, C, SQL
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
Operating Systems:	Windows, Linux
Knowledge:	NLP, XAI (Explainable AI), Computer Network, Machine Learning, AI/ML Frameworks, Deep Learning
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, Jyly 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.

Emotion Detection using NLP [GitHub]

- Built an NLP-based text classification model using TF-IDF and acheived **89% accuracy** using Logistic Regression for emotion prediction from textual data.
- Tech Stack: Python, Scikit-learn, NeatText, Seaborn, Matplotlib, NLP, TF-IDF, Logistic Regression, TextBlob.

E-commerce Data Analytics Project [GitHub]

- Analyzed e-commerce dataset using Python and MySQL to extract business insights and customer behavior trends that can improve **customer retention by 15%** and optimize inventory planning.