LAXMI NARAYAN SAHU

B.Tech – Computer Science Engineering (AI&ML) – TNU, Kolkata

GitHub LinkedIn

EDUCATION

The Neotia University (TNU), CGPA – 8.47 September 2021 - MAY 2025 Kolkata — *Bachelor of Technology in Computer Science and Engineering (AI/ML)*

De Paul School, Berhampur **12th (**A liated to ISC**) - 83%** APRIL 2020 - APRIL 2021

De Paul School, Berhampur **10th (**A liated to ICSE**) - 75%** APRIL 2018 - MARCH 2019

TECHNICAL SKILLS

Programming Languages: Python, Java, C

Libraries and Tools: Lang chain, Hugging Face, NLTK, OpenCV, Keras, TensorFlow, Scikit-Learn, Pandas, NumPy, Git, Matplotlib, Seaborn, Fast API, Transformers, PhiData, Firebase

Technologies: Machine Learning, Deep Learning, Computer Vision, Object Detection (YOLO), Generative AI, Large Language Models(LLM's), AgenticAI, Retrieval Augmented Generation(RAG)

Database: SQL, NoSQL (MongoDB)

WORK EXPERIENCE

AI-ML Engineer Intern at Pravaah Consulting — Bangalore (Remote) *June 2024 – Present*

• Collaborating on diverse, company-specific projects with a focus on generative AI, contributing to solutions that leverage cutting-edge AI models for innovative applications.

Python Developer Intern at Code Speedy — Kolkata (Remote) *June 2023 – August 2023*

• Developed a **Face Counting** System using OpenCV, capable of identifying and counting human faces in images.

• Built a **URL Shortener** web service in Python, simplifying long URLs to make them more manageable and shareable.

• Created a **Billing Management System** using Tkinter, automating invoicing, payment tracking, and improving financial accuracy and efficiency.

Front-End Web Developer Intern at IBM Skills Build — Kolkata (Remote) *June 2023 – July 2023*

• Completed a 6-week internship focused on HTML, CSS, and JavaScript fundamentals, culminating in the creation of a responsive eCommerce Website Clone. This project demonstrated practical front-end web development skills and responsive design principles.

PROJECTS

Lip Reading

A system that utilizes computer vision and deep learning techniques to interpret spoken words by analyzing lip movements.

- Uses advanced image processing and machine learning algorithms to identify and decode speech from visual input, focusing on the shape and movement of the lips.
- Provides real-time lip-reading capabilities, with applications in accessibility for the hearing-impaired, silent communication, and security.
- **Tech Stack**: Computer Vision, Streamlit, OpenCV

Traffic Sign Detection

Developed a Streamlit-based application that detects and classifies traffic signs to aid vehicle navigation. • This system uses image classification with Convolutional Neural Networks (CNN) to accurately recognize various traffic signs, helping vehicles respond appropriately based on the detected sign. • Provides a user-friendly interface for easy image upload and sign identification, making it practical for real world applications.

- **Tech Stack**: Python, Streamlit

Travel Recommendation System

Developed a web application using Django that provides personalized travel recommendations to users. • This system analyzes users' previously visited destinations or their preferences across various categories to suggest ideal travel locations.

- Integrates Natural Language Processing (NLP) for accurate recommendation analysis, creating a customized travel experience for users.
- **Tech Stack**: HTML, CSS, NLP, Django

ACHIEVEMENTS

- **Top 10** in a Kaggle Competition of ML Olympiad – Predicting Earthquake Damage
- Notebook Expert at Kaggle
- Invaluable contributions towards the Computer Literacy Program organized by the Techniche Club.
- Received Certificate of Recognition from Pravaah Consulting

POSITION OF RESPONSIBILITY

- **Member of the Techniche Club core team of TNU 2024**.
- **Head of Technical Team in Techniche Club of TNU**

CERTIFICATIONS

1. Hands on workshop on R Language & Application of Advanced R in Business Analytics – AILABS
2. HTML and CSS Certification – Udemy
3. Python Certification – GUVI
4. Machine Learning Certification – Coursera
5. Advanced Learning Algorithm – Coursera.
6. Unsupervised Learning, Recommenders, Reinforcement Learning – Coursera
7. Introduction to Natural Language Processing (NLP) – Infosys
8. Databricks Certifications. (Link of all Certificates).