

Diya Ghosh

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🌐 [LinkedIn](#)

🐙 [GitHub](#)

🔑 [LeetCode](#)

🌐 [Portfolio](#)

EDUCATION

Indian Institute of Engineering Science and Technology , Shibpur

2023 – 2027

B.Tech-Information Technology- CGPA - 9.47 (till 4th semester)

West Bengal, India

Kamala Girls' School

2021 – 2023

Higher Secondary Education- Percentage - 94.60%

West Bengal, India

Kamala Girls' School

2009 – 2021

Secondary Education- Percentage - 93.71%

West Bengal, India

PROJECTS

Mental Health Chatbot 🔗 | [Python](#), [PyTorch](#), [NLP](#), [NLTK](#), [Streamlit](#)

- Developed a **chatbot** to support users **emotionally**—**offering comfort** during **anxiety or sadness** and **celebrating moments of happiness**.
- Utilized **NLP techniques** including **tokenization**, **stemming**, and **vectorization** for **intent recognition**.
- Designed a **simple** and **user-friendly interface** using **Streamlit** to enable **easy** and **interactive conversations**.

Fraud Detection 🔗 | [Python](#), [Tensorflow](#) , [HTML](#) , [CSS](#) , [JavaScript](#)

- Developed a **machine learning**–based **fraud detection model** using **Logistic Regression**, **Decision Tree**, **Random Forest**, **KNN**, **SVM**, and **Naive Bayes classifiers**.
- Optimized the **model** achieving **79.4% accuracy** for **fraud transactions**.
- Built a **Flask-integrated web application** with **HTML**, **CSS**, and **JavaScript** **frontend** for **real-time fraud prediction** and **explanation**.

Plagiarism Detector 🔗 | [Python](#), [PyTorch](#), [NLP](#), [NLTK](#), [Streamlit](#)

- Built an **interactive Streamlit application** to compare **source and suspected text** for **plagiarism detection**.
- Designed a text **preprocessing pipeline** (**tokenization**, **cleaning**, **word embeddings**) to prepare **input data**.
- Developed and trained a **Deep Neural Network (DNN)** using **Word2Vec embeddings**, achieving **reliable binary classification** (**Plagiarized / Not Plagiarized**).

TECHNICAL SKILLS

Programming Languages : [Python](#) , [C++](#) , [C](#)

Software Development : [Object-Oriented Programming \(OOP\)](#) , [Data Structures and Algorithms \(DSA\)](#)

Web Development : [HTML5](#) , [CSS3](#)

Tools , Libraries and Platforms : [TensorFlow](#) , [PyTorch](#) , [VS Code](#) , [Git](#) , [GitHub](#) , [Pandas](#) , [NumPy](#) , [SciPy](#) , [scikit-learn](#)

ACHIEVEMENTS

- **UCO Bank Hackathon 2025** 🔗 : – Our **Team Buffer** has secured **3rd place** in the **Hackathon** organized by **UCO bank** and **IIST Shibpur** .
- **M-Code Hackathon** 🔗 : **2nd Place** – Led **Team Eunoia** in a Hackathon organized by **CodeIIST** and **Metallum**.
- Secured **3rd position** in the **Hyland Coding Challenge** during a 3-day **Industrial Exposure Program** by **Hyland Software Solutions**. 🔗
- Solved **700+** **Problems** on **LeetCode** , demonstrating **strong DSA** **algorithmic skills**.