

# Diya Ghosh

West Bengal , India

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LinkedIn

GitHub

LeetCode

Portfolio

## EDUCATION

**Indian Institute of Engineering Science and Technology , Shibpur**  
*B.Tech-Information Technology- CGPA - 9.47 (till 4th semester)*

2023 – 2027

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 Detecter** ↗ | 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 IEST Shibpur** .
- M-Code Hackathon** ↗ : **2nd Place** – Led **Team Eunoia** in a Hackathon organized by **CodeIEST 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**.