

# Diya Ghosh

West Bengal , India

☎ +91-7439088238

✉ [diya1692005ne@gmail.com](mailto:diya1692005ne@gmail.com)

🌐 [LinkedIn](#)

🐙 [GitHub](#)

🔗 [LeetCode](#)

## 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**.

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

- Built a **simple and interactive Streamlit application** to detect **plagiarism** by comparing **source** and **suspected texts**.
- Designed a **text preprocessing pipeline** (**tokenization**, **cleaning**, **word embeddings**) to prepare **input data**.
- Implemented **Random Forest** as a **baseline** and **refined** it with a **LSTM model** having **84.25% accuracy** and **84% overall recall**.

## 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](#)

## CERTIFICATIONS

- **Machine Learning Specialization – Stanford University via Coursera** 🔗 : Completed **3-course specialization** including **Supervised Machine Learning**, **Advanced Algorithms**, and **Unsupervised Machine Learning**.
- **Summer Training at IIT Hyderabad (virtual)** 🔗: Completed hands-on training and project work on **Core and Advanced Python** including **Object-Oriented Programming**.

## 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 **600+ Problems** on **LeetCode** , demonstrating **strong DSA algorithmic skills**.
- **Academic Rank 2nd** 🔗 in the Department of **Information Technology** till the current semester.