

# Diya Ghosh

West Bengal , India

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🌐 [LinkedIn](#)

🐙 [GitHub](#)

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## 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 with 93% recall and 78% precision** for fraud transactions.
- Built a **Flask-integrated web application** with **HTML, CSS, and JavaScript frontend** for **real-time fraud prediction and explanation**.

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