

# DIYA KARMAKAR

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## OBJECTIVE

A highly motivated Computer Science Student specializing in Artificial Intelligence and Machine Learning. Passionate about Software Development, Problem-solving, Machine learning. My Skills includes Python, C++, Data Structure, AIML. Seeking opportunities to apply and expand my technical skills in a professional setting.

## EDUCATION

### B-TECH CSE(AIML) 2022-2026

(Pursuing)

Roorkee Institute of Technology

UNIVERSITY: Veer Madho Singh Bhandari Uttarakhand Technical University

Class 12th from Beachwood School, Durgapur (71%) 2021

Class 10th from ST. XAVIERS HIGH SCHOOL – Bankura (82%)  
2019

## SKILLS

- **Programming Languages:**  
Proficient in Python, C, and C++ with a strong foundation in Object-Oriented Programming (OOP) and Data Structures and Algorithms (DSA)
- **Machine Learning & AI:**  
Understanding of core concepts such as supervised & unsupervised learning, model evaluation, feature engineering, and bias-variance tradeoff. Familiar with classification, regression, clustering, and basic deep learning models.
- **SQL & Databases:**  
Skilled in writing SQL queries, performing data manipulation, and executing joins, aggregations, and subqueries. Comfortable with relational database concepts and normalization.
- **Tools & IDEs:**  
Efficient with Visual Studio Code, Jupyter Notebook, and command-line interfaces. Familiar with basic Linux commands and environment setup for development.
- **Git and GitHub**

## PROJECTS

### SENTIMENT ANALYSIS OF REALTIME DATA

May 2025 – May 2025

*Python, Tweepy, Matplotlib, Pandas, Jupyter Notebook, Streamlit, Flask*

- Built a sentiment analysis system to process and analyse real-time tweets using Twitter API (Tweepy).
- Pre-processed tweets by cleaning text, removing noise (stop words, links, mentions, etc.), and normalizing input.
- Visualized sentiment distribution using bar charts and word clouds for each sentiment class.
- Deployed a simple web interface using **Streamlit/Flask** for live sentiment analysis input.
- Gained insights into trending topics and public opinion related to specific hashtags and events.

### A TO-DO WEB APP

June 2024 – June 2024

- This project is a basic Task Management Applications to help users organized daily tasks
- Integrated features like task additions, deletions, and real-time updates

### YOUTUBE CLONE

April 2023 – April 2023

- Developed a YouTube- like video streaming platform using HTML, CSS, JavaScript

- Implemented responsive UI, video playback functionality and good user experience setup

## ADDITIONAL INFORMATION

LANGUAGE KNOWN: English, Bengali, Hindi

INTERESTS: Open-Source Contribution, problem- solving, AI research