Nilanjan Bhattacharya

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Education

- **Institute Of Engineering and Management** — Kolkata, India
  Bachelor of Technology - CSE(specialization in AIML); GPA: 7.56 — *November 2021 - Present*
  Courses: *Compiler Design,Computer Networks,Data Structures and Algorithms, Software Engineering, Database Management System, Object Oriented Programming, Machine Learning*
- **G.D.Birla Centre For Education** — Kolkata, India
  ISC Grade Percentage: 84% — *2019-2021*
- **Maharishi Vidya Mandir** — Kolkata, India
  ICSE Grade Percentage: 84.5% — *2005-2019*

Skills Summary

- **Technical Skills** *(Programming Skills)*
  - **Languages** Java, Javascript, HTML, Python, SQL
  - **Frameworks** React, Springboot, Apache,MATLAB, Numpy, Pandas, Matplotlib, Scikit-Learn, Plotly
  - **Tools** VS Code, Intellij Idea, MySQL, Maven, MongoDB, Jupyter Notebook, Excel, GIT, Google Colab
  - **Platforms** Windows, Linux
- **Non-technical Skills** *(Soft Skills)*
  - **Languages** English(native), Hindi(fluent), Bengali(native)
  - **Soft Skills** Project Management, Event Management, Critical Thinking, Problem analysis, Leadership

Experience

- **UNIFIED MENTOR PRIVATE LIMITED**
  Web Development Intern — *June, 2024 - Present*

  Project Details :

  Weatherly is a web-based weather application that allows users to enter a location and retrieve the current weather conditions for that location and also displays weather conditions for the next 24 hours.
- **TEACHNOOK**
  Machine Learning Intern — *July,2022 - September,2022*

  Project Details :

  Water Potability Prediction,Developed a non-tuned Random Forest Classifier which achieved an accuracy score of 82.46%. Enhanced a Decision Tree model through hyperparameter tuning, achieving slightly higher accuracy compared to the non-tuned Random Forest Classifier.

Projects

- **IoT Based Fire Alarm System**
  The Flame Sensor Fire Detection System is designed to provide an early warning system against potential fire hazards.It utilizes a flame sensor module interfaced with an Arduino microcontroller to detect fire. When a fire is detected, the system triggers an alarm to alert users, enabling prompt action.
- **ATM Simulator**
  Java-based ATM simulator emulates the functionalities of an automated teller machine, allowing users to execute transactions such as withdrawals, deposits, and balance inquiries through a GUI. This simulator leverages OOPs principles and file handling for transaction logging, providing a platform for learning and testing banking operations.

Volunteer Experience

- **Sports Head, Institute of Engineering and Management (2024-2025)**
- **Organiser, IEM Freedom Cup (2022-Present)**

  Played a pivotal role in coordinating and executing official college football tournament of Institute of Engineering and Management,Kolkata.
- **Coordinator, IEMPACT (2022-2023)**

  Successfully spearheaded the planning, organization, and execution of the college's cultural fest.
- **Volunteer, Innovacion (2021-2022)**

  Actively Volunteered Tech-management Fest of Institute of Engineering and Management.