

# Ankur Chanda

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## Education

- Institute Of Engineering and Management** Kolkata, India  
*Bachelor of Technology - CSE(specialization in AIML); CGPA: 9.08/10.0* November 2021 - August 2025  
*Courses: OOPs, Database Management, Machine Learning, Deep Learning, Algorithms, OS, Data Structures, Artificial Intelligence*
- Kendriya Vidyalaya Ballygunge** Kolkata, India  
*Senior Secondary (XII), Science; Percentage: 93.60* May 2019 - June 2021

## Skills Summary

- Languages** Python, Java, MATLAB, SQL, C
- Frameworks** Numpy, Pandas, Matplotlib, Scikit-Learn, Plotly, streamlit, TensorFlow, Keras, PyTorch, Seaborn
- Tools** Jupyter Notebooks, Excel, VS Code, XAMPP, GIT, MySQL, Anaconda Navigator, Google Colab
- Platforms** Windows, Ubuntu, Kaggle, Github Codespaces
- Soft Skills** Team Coordination, Event Management, Writing

## Experience

- Indian Institute of Technology, Kharagpur** On-site  
*Research Intern (Supervisor: Prof. Sandip Chakraborty)* May 2023 - July 2023
  - Change Point Detection:** Developed expertise in streaming analytics and online change point detection methodologies and leveraged machine learning algorithms to detect and analyze change points in real-time data streams.
  - Implementation and Analysis:** Processed and extracted insights from over 75,000 time series data points. Identified and analyzed patterns and transitions to understand the dynamics of the data.
  - Improved Performance:** Achieved a significant improvement of 7 percent in detection accuracy through algorithmic enhancements.*Tools used: Jupyter Notebook, Python, Git, Ruptures, bocd, KL-CPD*

## Projects

- TaskEase : A Task Management System/ [Github Video](#)**  
Developed and implemented a task management system using **MySQL database** for **CRUD applications** helping users stay organized and productive.  
This system allows ensures effective task assignment, progress tracking and leave management.
- Football Matches Data Scraping and Prediction / [Github](#)**  
To extract Football matches data and statistics by scraping with **bs4** and **requests**.  
Preprocessed and normalized the extracted data texts by removing HTML tags, special charaters and irrelevant information.  
Computed a **Random Forest classifier (74% accuracy)** and optimized the model by tuning the **hyperparameters**, computing **rolling averages** and evaluation metrics such as accuracy and precision to assess the model effectiveness.
- Fly High (Team of 4) / [Github](#)**  
To develop a game using **PyGame** in which players can navigate around obstacles, dodge opposing spacecraft, and fire shots.  
Implemented core mechanics of the game, including vertical motion, obstacle detection, bullet firing and enemy spacecraft behaviour.  
Employed a **scoring system** to track player's progress and awarding points based on successful navigation through obstacles or enemies.

## Publications

- Journal Paper: [Real-time Classification of EEG Signals Using Machine Learning Deployment](#)**  
Ongoing work in progress. Tech: Python, Scikit-learn, Emotiv Sensor, Git, Streamlit ( *In Publication by ACD Journal* )

## Honors and Awards

- Certified **Data Science Specialist** by **IBM**
- Ranked **3rd** in Dreaming in Neon, A Game Development event organised by Presidency University, Kolkata. [Link](#)
- Won Internal Hackathon of **Smart India Hackathon 2023** from IEM, Kolkata.
- Scored **1st** in 'Introduction to Machine Learning': An online course offered by IIT Kharagpur. Score: 90% [Link](#)
- 5 star Coder** in HackerRank(Python)

## Volunteer Experience

- GitHub Core Team Member at Diversion IEM** Kolkata, India  
*Managed access to Github and for sending notifications which helped 200+ contributors.* Nov 2022 - Mar 2023
- Organizing Team Member at Smart Maker Festival IEM** Kolkata, India  
*Organized ML-related events and conducted workshops for the students of IEM* Aug 2022 - Sep 2022