

Ankur Chanda

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Education

- Institute Of Engineering and Management** Kolkata, India
Bachelor of Technology - CSE(specialization in AIML); CGPA: 8.915/10.0 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, SQL
- Frameworks** Numpy, Pandas, Matplotlib, Scikit-Learn, Plotly, streamlit, TensorFlow, Keras, OpenCV, 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

- CMATER, Jadavpur University** On-site
Research Intern Jan 2024 - Present
 - Medical Imaging:** Working under the guidance of Prof. Nibaran Das towards understanding **latent space** for medical image-to-image translation.
 - Implementation and Comparative Analysis:** Conducted comparative studies on synthetic data generation on the BreakHis and SIPaKMeD datasets using **DCGAN** and **WGAN-GP** frameworks.
- Indian Institute of Technology, Kharagpur** On-site
Summer 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, Ruptures, bocd, KL-CPD

Projects

- LipNet : End-to-End Sentence-level Lipreading/ [Github](#)**
Developed a deep learning model using **CNN** and **Bi-LSTM** to process video frames for lip-reading, achieving a (95.2 %) accuracy rate on a dataset of (1000 sentences from a speaker) obtained from GRID corpus, aligning visual inputs with corresponding text data.
- 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 characters 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 and bullet firing.
Employed a **scoring system** to track player's progress and awarding points based on successful navigation through obstacles or enemies.
- Task Management System/ [Github](#) [Video](#)**
Task management within an organization using **MySQL** database for **CRUD** applications helping users ensure effective task assignment, progress tracking and leave management. **Key skills:** Web development, PHP, MySQL

Publications

- Journal Paper:** Real-time Classification of EEG Signals Using Machine Learning Deployment Paper
- Conference Paper:** NeuroSonic: Therapy to Enhance Mental Wellness with EEG Brain Signal Paper

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](#)

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