Ankur Chanda

Linkedin | Github | **ankurchanda198@gmail.com** | **+91 9832219955** | LeetCode | Website

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 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 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**
  Under Review. Tech Stack: 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

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*