Ayan Banerjee

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■ GitHub

About Me

MSc in Data Science | Passionate about ML, DL & Statistics
 Based in India | application

I'm a Data Science postgraduate skilled in Machine Learning, Deep Learning, and Graph Neural Networks.

I love building real-world projects.

Featured Projects

Movie Recommendation System with LightGCN

- Built a GNN-based movie recommender using PyTorch Geometric
- Implemented BPR loss and normalized diffusion matrix on the MovieLens dataset
- Compared GCN, GAT, and LightGCN
 GitHub: Movie Recommendation System

Music Source Separation using Enhanced U-Net

- Trained an Enhanced U-Net model on MUSDB18 to isolate vocals from audio
- Used spectrogram transformation and augmentation in PyTorch
- Trained and evaluated on GPU for high performance
 GitHub: Music Segmentation

Bengali OCR

- Used LeNet and ResNet models to recognize Bengali characters
 - GitHub: Bengali Character Recognition

Heart Disease Prediction

- Used multiple ML algorithms for binary classification

% Skills

- Languages: Python, R
- ML/DL: Scikit-learn, PyTorch, TensorFlow
- Tools: Jupyter Notebook, VS Code
- Data Tools: Pandas, NumPy, Matplotlib, Seaborn

Education

M.Sc. in Big Data Analytics RKMVERI

- Howrah , India
- 2023 2025 (Expected)
 - Coursework: Machine Learning, Deep Learning, Statistics

B.Sc. in Mathematics

Serampore College / Calcutta University

- ↑ Hooghly,West Bengal, India
 †† 2021 2024
 - Relevant Topics: Mathematics, Statistics

Quote I Live By:

"Learning never exhausts the mind." – Leonardo da Vinci