AYAN BANERJEE

DATA ANALYST

CONTACT

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Hooghly, West Bengal

EDUCATION

2024-2026

RKMVERI

- M.Sc. Big Data Analytics

2021-2024

SERAMPORE COLLEGE, CU

- B.Sc. Mathematics

SKILLS

- Statistics
- Machine Learning
- Deep Learning
- Python , R
- Mathematics

LANGUAGES

- English
- Bengali

PROFILE

I am a highly motivated and detail-oriented Data Scientist with a strong academic foundation in Mathematics and Statistics, combined with hands-on expertise in Machine Learning and Deep Learning. My passion lies in transforming data into meaningful insights and intelligent systems that solve real-world problems.

With a deep curiosity for how things work beneath the surface, I constantly seek to understand algorithms from both mathematical and practical perspectives. I enjoy building predictive models, exploring neural networks, and working on AI-powered projects that make an impact.

Driven by continuous learning and a research-oriented mindset, I strive to blend theoretical depth with real-world applications in data science, aiming to contribute meaningfully to innovation in AI.

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: MusicSegmentation

- **Bengali OCR**
  - Used LeNet and ResNet models to recognize Bengali character.
  - Github: BengaliOCR

- **Heart Disease Prediction**
  - Used multiple ML algorithms for binary classification.
  - Github: HeartDisease