

Ayantanu Laha

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M.Sc Computer Science

in [LinkedIn Profile](#)

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EDUCATION

- **Ramakrishna Mission Vivekananda Educational and Research Institute** 2023-25
M.Sc Computer Science Persuing
- **Ramakrishna Mission Residential College, Narendrapur** 2020-23
B.Sc Computer Science CGPA: 9.61
- **Dhaniakhali Mahamaya Vidyamandir** 2020
Board of Higher Secondary Education, West Bengal Percentage: 93.2
- **Dhaniakhali Mahamaya Vidyamandir** 2018
Board of Secondary Education, West Bengal Percentage: 91.8

EXPERIENCE

- **6th Summer School on AI**
International Institute of Information Technology Hyderabad (IIITH)
 - The Summer School covered a wide range of topics, provided valuable insights and knowledge in Computer Vision, Machine Learning, etc. It was a great learning experience and an excellent opportunity to connect with experts.
- **Chegg Expert** 2022-Present
Computer Science
 - Providing assistance to students in Computer Science subjects on Chegg.

PROJECTS

- **Ensemble Learning Strategies for Enhancing Predictive Models in Cardiology**
Ramakrishna Mission Vivekananda Educational and Research Institute
 - * **Tools & technologies used:** Python, Pandas, Numpy, Scikit-learn, Kaggle, Stacking classifier, Bagging classifier, Boosting classifier.
 - * This project aimed to improve predictive models in cardiology by leveraging ensemble learning techniques such as bagging, boosting, and stacking. Ensemble methods combine multiple models to produce better predictions than any individual model alone, thereby enhancing accuracy and robustness in diagnosing cardiac conditions.
 - * **Ongoing**
- **Create a Large Language Model from scratch using Transformer**
Ramakrishna Mission Vivekananda Educational and Research Institute
 - * **Tools & technologies used:** Python, PyTorch, Transformer architecture, Natural Language Processing (NLP).
 - * This project involved building a large language model from scratch using the Transformer architecture, a state-of-the-art model for various NLP tasks. By implementing the Transformer architecture, this project aimed to understand and leverage self-attention mechanisms for learning contextual representations of text data.
 - * **Ongoing**
- **Movie Recommendation System using Streamlit**
Ramakrishna Mission Vivekananda Educational and Research Institute
 - * **Tools & technologies used:** Python, Pandas, Numpy, Streamlit
 - * Developed a movie recommendation system using collaborative filtering techniques and Streamlit. Leveraged Python's Pandas for data processing and analysis. Integrated TMDB API for movie data and posters. Users can select a movie from a dropdown menu and get recommendations based on preferences and movie similarities.
 - * **Link to Project:** [Google Drive](#)
- **Singular Value Decomposition based Image Authentication Systems and its Applications in Telemedicine**
Ramakrishna Mission Residential College (Autonomous), Narendrapur
 - * **Tools & technologies used:** Python, Pandas, Numpy, Kaggle, DWT, SVD, Hamming code.
 - * This project focused on developing various robust image watermarking techniques using Singular Value Decomposition (SVD) in the context of telemedicine. The rapid advancement of telemedicine has brought about the need for secure transmission and protection of medical images, ensuring patient privacy and data integrity.
 - * **Link to Project Documentation:** [Google Drive](#)

TECHNICAL SKILLS AND INTERESTS

Languages: Python, C++, Prolog, Haskell, HTML, CSS

Cloud/Databases: Oracle DB

Areas of Interest: Graph Theory, Discrete Mathematics, Linear Algebra, Algorithm, Machine Learning, Data Science, Computer Vision, Natural language processing, Image Processing.

VOLUNTEER EXPERIENCE

–**Ramakrishna Mission Residential College (Autonomous), Narendrapur**

2022-23

Seminar Committee

- * Collaborated with faculty and students in organizing events such as seminars, workshops, and talks to enrich both academic and spiritual discussions.

–**Ramakrishna Mission Vivekananda Educational and Research Institute**

2024

Design Team Member (Perceptron Tech fest)

- * Design the website and poster of the Events.

HOBBIES

–Playing Football, Table Tennis, Drawing.