RAIHAN UDDIN

M.Sc. in Computer Science

Ramakrishna Mission Vivekananda Educational and Research Institute, Belur Math, West Bengal, India

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myPortfolio

PROJECTS

MedXpert: Medical Visual QA & Diagnosis Assistant Jan 2025 - May 2025

- Designed AI system for medical diagnosis using visual-language retrieval and automated report generation
- Fine-tuned CLIP model on MIMIC-CXR dataset and integrated BLIP with Gemini LLM for structured reports

Tools: Python, PyTorch, OpenAl CLIP, BLIP, Gemini LLM, Streamlit | **Faculty:** Mr. Champak Dutta

GitHub: Click here

ChatGPT Clone with DeepSeek R1 & RAG-Powered PDF Q&A Jan 2025 - May 2025

- Developed ChatGPT-like AI Assistant using DeepSeek R1 with RAG for document-based Q&A
- Enabled PDF uploads with FAISS vector search and implemented persistent chat memory using MySQL

Tools: Python, Streamlit, FastAPI, DeepSeek R1, FAISS, MySQL | **Faculty:** Mr. Champak Dutta

GitHub: Click here

Classification-Based Approach for Predicting Smartphone Price Categories

Aug 2024 - Nov 2024

- Built machine learning model to classify smartphones into price segments using multiple algorithms
- Analyzed key features influencing pricing and compared classification techniques for optimization

Tools: Python, scikit-learn, pandas, numpy, matplotlib | **Faculty:** Dr. Rudra Banerjee, RKMVERI

GitHub: Click here

Wavelet-Based Approach for Authenticating Medical Images & Extracting Patient Info

Jan 2024 - Apr
2024

- Designed digital watermarking system to protect medical image integrity and ensure authenticity
- Applied DWT, Histogram Shifting, and Arnold's Cat Map to embed hidden watermarks seamlessly

Tools: Python, OpenCV | Faculty: Dr. Sudip Sanyal, RKMRC

GitHub: Click here

COURSEWORK

- Machine Learning
- Computer Vision
- Deep Learning and NLP
- Advanced Algorithm
- LLM
- Linear Algebra

- Theory of Computation
- Probability and Stochastic Process
- Statistics-I
- Computational Geometry
- Spectral Graph Theory
- Universal Human Values

EDUCATION

Ramakrishna Mission Vivekananda Educational and Research Institute, Howrah

M.Sc in Computer Science

2024 - Present

Ramakrishna Mission Residential College (Autonomous), Narendrapur, Kolkata

B.Sc in Computer Science

i 2021 - 2024

CGPA: 8.30

 Mohisda Ramnarayan High School, Paschim Medinipur, West Bengal

Higher Secondary

2019 - 2021

Score: 86%

TECHNICAL SKILLS

- Programming Languages: C, C++, Python, Java, SQL
- Python Libraries: NumPy, Pandas, Matplotlib, Seaborn, OpenCV, Flask
- Web Development: HTML, CSS, JavaScript
- Tools: Git, GitHub
- Operating Systems: Windows, Linux (Ubuntu)

LEADERSHIP POSITIONS

- Instructor at Envision, RKMRC Feb 2024
 Guided tech activities during the college tech fest.
- Organizer for Perceptron, RKMVERI Jan 2025 Assisted in organizing and managing events during the tech fest.

HOBBIES

• Playing cricket, watching movies, photography

ACHIEVEMENTS

 Secured AIR 2 in MPST Entrance Exam 2024, conducted by the Indian Association for the Cultivation of Science (IACS).