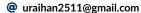
## **RAIHAN UDDIN**

M.Sc. in Computer Science

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



itsraihanuddin

Raihan2511

**7601971615** 

myPortfolio



### **PROJECTS**

#### > ShopLens: Al-powered shopping assistant app

Jan 2025 - May 2025

Tools: Huggingface, Streamlit, OpenCV, PyTorch, YOLO [GitHub]

- Fine-tuned YOLOs model for precise detection of various clothing categories in user-uploaded images.
- Integrated Fashion-CLIP model for image-to-text matching, enabling accurate recognition and description of fashion items.
- Developed a Streamlit-based chatbot interface with image upload functionality for interactive user experience and real-time fashion analysis.
- Supervised by Br. Tamal Mj

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

Tools: Streamlit, DeepSeek R1, FAISS, PostgreSQL

[GitHub]

- Developed ChatGPT-like AI Assistant using DeepSeek R1 with RAG for document-based Q&A functionality
- Enabled PDF uploads with FAISS vector search and implemented persistent chat memory using PostgreSQL
- Supervised by Prof. Champak Dutta

# ➤ Classification-Based Approach for Predicting Smartphone Price Categories Aug 2024 - Nov 2024

**Tools:** scikit-learn, pandas, numpy, matplotlib

[GitHub]

- Built machine learning models to classify smartphones into price segments using multiple algorithms
- Achieved best results with SVM (95.20% test accuracy), Logistic Regression (94.95%), and XGBoost (91.92%)
- Supervised by Br. Tamal Mj

# ➤ Wavelet-Based Approach for Authenticating Medical Images & Extracting Patient Info Jan 2024 - Apr 2024 Tools: Python, OpenCV [GitHub]

- Designed robust digital watermarking system using DWT, Histogram Shifting, and Arnold's Cat Map
- Achieved high fidelity with average PSNR of 68 dB and SSIM of 0.98 for extracted watermarks
- Supervised by Prof. Bibek Ranjan Ghosh

## **COURSEWORK**

- Machine Learning
- Computer Vision
- · Deep Learning and NLP
- · Advanced Algorithms
- Large Language Models
- Theory of Computation
- Probability
- Linear Algebra
- Statistics-I
- Computational Geometry
- · Spectral Graph Theory

## **EDUCATION**

Ramakrishna Mission Vivekananda Educational and Research Institute, Howrah

#### M.Sc in Computer Science

**2**024 - Present

Ramakrishna Mission Residential College (Autonomous), Narendrapur, Kolkata

#### **B.Sc in Computer Science**

**=** 2021 - 2024

CGPA: 8.30

Mohisda Ramnarayan High School, Paschim Medinipur, West Bengal

#### **Higher Secondary**

**2019 - 2021** 

Score: 85.6%

## **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
- Working out at the gym
- Watching movies

## **ACHIEVEMENTS**

- GATE 2025 Qualified in Computer Science & Information Technology, conducted by IIT Roorkee
- Secured AIR 2 in MPST Entrance Exam 2024, conducted by the Indian Association for the Cultivation of Science (IACS)