

Sarah Tasnim Diya



Computer Science & Engineering undergraduate specializing in AI/ML and software development, with hands-on experience in deep learning, data preprocessing, and research-oriented model development. Published researcher with practical exposure to TensorFlow, PyTorch, and end-to-end ML pipelines. Seeking a AI-ML Intern role to contribute to real-world, data-driven systems.

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Experience

Ambassador

• Women in Games

JULY 2025 - PRESENT

- Representing Women in Games as the only Bangladeshi Ambassador, promoting gender diversity and inclusion in the national game development community.

Vice President (Research Wing)

• DIU Astrophysics Center (Student Forum)

MARCH 2025 - DECEMBER 2025

- Organized a planetarium show engaging over 150 students to promote interest in astrophysics research
- Coordinated research workshops focused on integrating AI methodologies with astrophysics applications.
- Mentored 5+ junior members in research techniques and project development

Trainer

• Junior Competitive Programming Contest (JCPC)

OCTOBER 2024 - DECEMBER 2024

- Trained over 150 students in Scratch programming fundamentals for competitive contests
- Conducted hands-on workshops to enhance problem-solving skills
- Improved average contest scores by 30% through structured curriculum and mentoring

Education History

BSc. (Computer Science & Engineering)

JAN 2022 - JAN 2026

Department of Computer Science & Engineering ,
Daffodil International University

Result: 3.84 out of 4

HSC (Science)	2020	Result: 5 out of 5
SSC (Science)	2018	Result: 5 out of 5

Core Skills

- Problem-Solving and Intuitive Thinking
- Research and Implementation
- Project Documentation
- Leadership
- Teamwork
- Time Management
- Communication

Technical Skills

- Programming:**
Python, C, C#, Java, JavaScript, SQL, Dart, PHP
- AI / Machine Learning:**
TensorFlow, Keras, PyTorch, Scikit-learn, Deep Learning fundamentals (CNNs), Basic NLP concepts (tokenization, embeddings)
- Data Analysis & Preprocessing:**
Pandas, NumPy, Data cleaning, normalization, augmentation, Exploratory Data Analysis (EDA)
- Web Development:**
HTML, CSS, REST APIs , MySQL, Firebase, Flutter
- Tools & Platforms:**
Git, GitHub, Jupyter Notebook, Google Colab, Zapier, Microsoft Office, Canva, Google Workspace

AI / ML Projects

Dual-Task Facial Emotion Recognition System

TensorFlow, Keras

- Built a dual-task deep learning model for emotion classification and fake vs. genuine detection; paper accepted in Emerging Science Journal, dataset published on Mendeley Data.

Multiclass Facial Emotion Classification Models

Deep Learning

- Implemented CNN-based models for seven-class facial emotion recognition, improving generalization through preprocessing and augmentation.

MBTI Personality Prediction (Ongoing Research)

Machine Learning

- Developed ensemble ML models for MBTI personality prediction using feature engineering and data balancing; manuscript in preparation.

LLM-Based Document QA Agent

LlamaIndex

- Built an LLM-powered document QA system for question answering, summarization, and task extraction using LlamaIndex and vector-based retrieval.

Research Experience

AI Research & Project Assistant

- Conducted research on facial emotion recognition and affective computing.
- Collaborated on dataset preparation, experimentation, and academic writing.
- Publication accepted in an international peer-reviewed journal.

Reference

MR. SYED MAZHARUL HAQ

Managing Director

Far East Spinning Industries PLC.

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MR. MD. MIZANUR RAHMAN

Lecturer (Senior Scale)

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Training & Certifications

- Machine Learning with Python
- IBM
- Deep Learning with Keras and Tensorflow
- IBM
- Data Science Math Skills
- Duke University
- Python Basics
- University of Michigan
- Craft effective prompts for Microsoft 365 Copilot
- Microsoft
- AI+ Prompt Engineer Level 1™
- AI CERTS™

Honors & Awards

- **Agent X: AI Prompting Program**
— Microsoft & NetCom Learning
- **Frontier Tech Scholar**
— UNDP FutureNation
- **Womanium Scholar**
— WISER Quantum Program (2025)
- **QBronze169 Diploma**
— QWorld × Womanium × WISER

Interested In

- Machine Learning
- Deep Learning
- Applied AI Systems
- Web development

Language Proficiency

- Bengali
- English