Sarah Tasnim Diya

Computer Science graduate with a strong foundation in Python, AI/ML, and API-based integrations, actively building skills in AI-driven workflow automation. Experienced in prompt engineering, data preprocessing, and scripting, with growing hands-on exposure to low-code automation tools. Highly motivated to contribute as a Junior AI Workflow Automation Engineer.

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- github.com/sarahtasnimdiya

Experience

Ambassador
• Women in Games
JULY 2025 - PRESENT

- Representing Bangladesh to promote gender diversity and inclusion within the game development and technology community.
- Engaging with international programs, events, and developer communities, contributing to outreach, advocacy, and community-building initiatives.

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
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Far East Spinning Industries PLC.
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MR. MD. MIZANUR RAHMAN
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** Relevant papers are available on request.

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™
- QBronze169 Diploma
  - QWorld

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 (Native)
- English (Professional)