



Md Abu Sama

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ABOUT ME

Computer Science and Engineering graduate with specialized experience in machine learning, digital image processing, and algorithm development. Skilled in building predictive models, such as a gestational diabetes prediction model, and enhancing data quality through advanced techniques in noise reduction and image restoration. Experienced Assistant Researcher with a history of collaborating on university research projects, where I developed algorithms for natural language processing and machine translation. As an ICT Lecturer, I excel in making technical concepts accessible to students through multimedia presentations and interactive teaching. I am seeking opportunities that allow me to advance my research and technical skills in innovative fields of technology and education.

WORK EXPERIENCE

OWN BUSINESS – DHAKA, BANGLADESH

Business or Sector Education

LEARNING MENTOR – 15/05/2024 – CURRENT

1. **Deliver engaging lessons**
2. **Prepare lesson plans, assignments, and assessments** aligned with national curriculum standards to ensure academic progress.
3. **Provide academic guidance and mentorship** to help students develop both subject knowledge and critical thinking skills.
4. **Maintain regular communication with guardians** to discuss student performance, behavior, and areas for improvement.
5. **Organize meetings with parents**, to share progress reports, and address any academic or personal concerns affecting student learning.
6. **Monitor student attendance, participation, and discipline**, ensuring a supportive and focused learning environment.
7. **Use digital tools and platforms** for teaching, assessments, and communication to enhance the learning experience and transparency with guardians.
8. **Motivate and counsel students** to set academic goals and overcome challenges through encouragement and individual support.

RANGAMATI GOVT. WOMEN COLLEGE – RANGAMATI, BANGLADESH

ICT LECTURER IN COLLEGE – 02/03/2023 – 30/12/2023

- Design and deliver ICT lessons
- Assess student performance, prepare course materials
- Guide practical lab sessions, stay updated with tech trends
- Support academic development, and contribute to curriculum planning and departmental activities.
- Communication with colleagues
- Professional development
- Administrative record keeping

RANGAMATI SCIENCE AND TECHNOLOGY UNIVERSITY – RANGAMATI-4500, BANGLADESH

Business or Sector Information and communication | **Department** Computer Science and Engineering | **Email** contact@rmstu.ac.bd |

Website www.rmstu.ac.bd

ASSISTANT RESEARCHER IN UNIVERSITY – 03/09/2022 – 27/07/2023

- Conducting literature reviews to gather relevant research.
- Develop algorithms and techniques to analyse and manipulate digital images.
- Improve image quality through noise reduction, enhancement, and restoration.
- Develop algorithms and models to understand and generate human language.
- Explore techniques for text pre-processing, tokenization, and feature extraction.

- Build and train neural network architectures for tasks in machine translation.
- Collaborating with the research team effectively

EDUCATION AND TRAINING

01/08/2017 – 27/07/2023 Rangamati-4500, Bangladesh

BACHELOR OF SCIENCE IN COMPUTER SCIENCE AND ENGINEERING Rangamati Science and Technology University

- Programming Language C, C++, Python
- Data Structure
- Object Oriented Programming (Java)
- Algorithms
- Compiler Design and Analysis
- Finite Language, Automata and Computation
- Linear Algebra and Ordinary Differential Equation
- Mathematics for Computer Science
- Artificial Intelligence
- Machine Learning and Data Mining
- Cryptography and Network Security
- E-Commerce and Web Engineering

Website www.rmstu.ac.bd | **Field of study** Computer Science and Engineering | **Final grade** 3.25 out of 4 scale | **Level in EQF** EQF level 6 |

National classification NQF level 8 | **Type of credits** BD credit Hours | **Number of credits** 160 |

Thesis Gestational Diabetes Prediction Using Machine Learning Classifiers

12/07/2013 – 18/08/2016 Kurigram, Bangladesh

HIGHER SECONDARY CERTIFICATE Jadur Char Degree College

Website www.jadurdc.edu.bd | **Field of study** Science | **Final grade** 4.33 out of 5.00 | **Level in EQF** EQF level 5

01/01/2008 – 09/05/2013 Kurigram, Bangladesh

SECONDARY SCHOOL CERTIFICATE Jadur Char High School


Field of study Science | **Final grade** 5.00 out of 5.00 | **Level in EQF** EQF level 4

LANGUAGE SKILLS

Mother tongue(s): **BENGALI**

Other language(s): **ENGLISH**

SKILLS

Python (NumPy, Pandas, NLTK, Matplotlib, Scikit-learn, TensorFlow) |  Machine Learning | BIG DATA | Apache Spark (PySpark Spark SQL MLlib) | Tools and Platforms: Visual Studio Code, Latex, Microsoft Windows, Ubuntu | communication | encourage students to acknowledge their achievements | assist students in their learning | adapt teaching to student's capabilities | communicate with youth | consult student's support system | counsel students

RECOMMENDATIONS

Ahmed Imtiaz Department Chairman

- I have known him since 2nd year of my bachelor's program.
- He is extremely helpful and student-friendly.
- He supervised my friends and seniors they were satisfied to work with him.

Email imtiaz@rmstu.ac.bd | **Phone** (+880) 1732031301

Dhonita Tripura Bachelor Thesis Supervisor

- I have known her since 2nd year of my bachelor's program.
- She helped me during my whole thesis period.

Email dhonitatripura@rmstu.ac.bd | **Phone** (+880) 1946657443

PROJECTS

17/04/2022 – 17/06/2022

Gestational Diabetes Prediction Using Machine Learning Classifiers

- A high proportion of pregnant women worldwide are afflicted by gestational diabetes mellitus (GDM), a frequent metabolic condition linked to childbirth. It is estimated that GDM affects approximately 7% of all pregnancies worldwide, making it a significant public health issue.

17/06/2022 – 21/06/2022

Diabetes Prediction Web App Development using python

1. Developed using Python for backend integration with the ML model. Streamlit python framework used for designing a responsive front-end interface. Users can input health parameters and receive real-time diabetes risk prediction.
2. Easy-to-use interface for both medical professionals and general users.
3. Instant prediction result with personalized health tips.
4. Option to store or export reports.
5. Mobile-friendly design for broader accessibility.

10/10/2022 – 27/04/2023

Pregnancy Risk Prediction in Chattagram Hill Tracts with Benchmark Dataset

1. To develop a predictive model that identifies pregnancy-related health risks among women in the Chattagram Hill Tracts (CHT) region using Machine Learning (ML) and Artificial Intelligence (AI).
2. The CHT region faces limited access to healthcare, poor maternal health monitoring, and cultural diversity that affects healthcare delivery. High maternal and neonatal risks persist due to delayed diagnosis and insufficient medical infrastructure.
3. The **data were collected** from local hospitals, health centers, and field surveys in the CHT. **Key features** include age, blood pressure, hemoglobin level, pregnancy history, antenatal check-ups, etc.

14/02/2020 – 05/08/2020

Building Obstacle avoiding Robot Using Arduino Uno Microcontroller Board

- It was a team-based project.

HOBBIES AND INTERESTS

Interests

- Human-Computer Interaction & AI
- Robotics and Embedded Systems
- Educational Technology

Hobbies

I have traveled extensively across Bangladesh exploring its diverse cultures, landscapes, and heritage. This experience has enriched my understanding of people, enhanced my adaptability, and broadened my perspective. It has also strengthened my communication skills and cultural awareness—qualities that support teamwork, customer service, and professional growth.

VOLUNTEERING

10/10/2019 – 13/08/2022 Rangamati-4500

Keep Your City Clean

1. Participated in city-wide cleanup drives to promote environmental awareness and civic responsibility.
2. Engaged local community members to raise awareness about hygiene, waste management, and sustainable living.
3. Coordinated with team leaders to organize cleanup zones and ensure safety protocols were followed.
4. Distributed informative leaflets and conducted awareness sessions in schools and public areas.
5. Documented and reported progress to project coordinators for campaign evaluation and improvement.
6. Worked in a team environment to complete tasks under tight schedules, showing dedication and collaboration.

OTHER INFORMATION

Extra Curricular Activities

1. Teaching and Mentoring Activities(My Profession right now)
2. Inter-University Programming Competitions
3. Leadership Roles in Student Organizations(Class Representative)
4. Innovation Projects(For course work)
5. Public Speaking(Many programs in university)

01/10/2025



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