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ResearchGate: https://www.researchgate.net/profile/Md_Mahedi_Hassan

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EDUCATION

BRAC University, Dhaka, Bangladesh
Bachelor of Science in Computer Science and Engineering, 2017–2021

- **CGPA:** 3.97 / 4.00
- **Honors & Awards:**
    - Vice Chancellor's Honor List, Dean's Honor List (Outstanding academic performance)
    - Merit-based scholarship recipient
    - Champion, Intra-University Programming Contest (2018)

RESEARCH INTERESTS

Machine Learning, Deep Learning, Computer Vision, Bioinformatics, Robotics, Internet of Things, Cybersecurity

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RESEARCH & PUBLICATIONS

1. *" Ensemble-Based Multimodal Deep Learning Approach to Detect DeepFake Videos in Real-Time"* [Thesis Work]
    - (Under Review- in IEEE Open Journal of the Computer Society)
2. *"Bank Loan Prediction Using Machine Learning Techniques"*
   https://doi.org/10.4236/ajibm.2024.1412085
3. *"Enhancing Bangla Fake News Detection Using Bidirectional Gated Recurrent Units and Deep Learning Techniques"*
   https://doi.org/10.1145/3659677.3659703
4. *"Cyber Security and People: Human Nature, Psychology, and Training Affect User Awareness, Social Engineering, and Security Professional Education and Preparedness"*
   https://doi.org/10.1109/ICCCNT56998.2023.10307467
5. *"Analyzing the Classification Accuracy of Deep Learning and Machine Learning for Credit Card Fraud Detection"*
   https://doi.org/10.33130/AJCT.2022v08i03.006
6. *"Secure Internet of Things (IoT) Networks: Study the challenges and develop solutions for securing IoT networks, including authentication, access control, and data protection"*
   https://doi.org/10.33130/AJCT.2023v09i02.007
7. *"Revolutionizing Healthcare: A Deep Dive into Artificial Intelligence's Impact on Diagnosis, Treatment, and Patient Outcomes"* [Passed the first review-ICCAI 2025]

Research Highlights:

- DeepFake video detection using deep learning architectures
- *Bank Loan Prediction Using Machine Learning*

- Fake news detection in local language (Bangla)
- Credit card fraud detection through machine learning and deep learning models
- IoT network security solutions
- Impacts of Artificial Intelligence on healthcare

TEACHING EXPERIENCE

Lecturer (Full-time), Department of Computer Science and Engineering (CSE)
Daffodil International University, Dhaka, Bangladesh | January 2022 – Present
Faculty Profile: https://faculty.daffodilvarsity.edu.bd/profile/cse/mahedi.html

- Courses Taught:
  - CSE113: Programming and Problem Solving
  - CSE222: Object-Oriented Programming
  - CSE231: Algorithms
  - CSE232: Algorithms Lab
  - CSE311: Database Management System
  - CSE312: Database Management System Lab
  - CSE412: Big Data and IoT
  - CSE413: Big Data and IoT Lab

Adjunct Lecturer (Part-time), Department of Computer Science and Engineering (CSE)
BRAC University, Dhaka, Bangladesh | January 2022 – September 2023
Faculty Profile: https://cse.sds.bracu.ac.bd/faculty_profile/31/mr_md_mahedi_hassan

- Courses Taught:
  - CSE110: Programming Language I
  - CSE111: Programming Language II
  - CSE220: Data Structures
  - CSE221: Algorithms

Additional Responsibilities at Daffodil International University:

- Member of Thesis/Project Committee
- Member of Exam Committee
- Member of Outcome-based education (OBE) Committee
- Course Coordinator

Prior Teaching Roles at BRAC University:

- Student Tutor (ST/TA), CSE | February 2020 – September 2021
- Mentor, First Year Advising Team | January 2020 – September 2021

RELEVANT TRAINING & CERTIFICATIONS

Training Experiences:

- Workshop on Future of Teaching and Learning titled, "Make my Teaching visible" by Prof. Dr. Ahmed Mustafa, Purdue University, Fort Wayne, USA

- Workshops on "Research Methodology" by HRDI, DIU
- Training on "Outcome-Based Education (OBE)" by Prof. Dr. Hasan Sarwar, Board of Accreditation for Engineering and Technical Education, IEB
- Training on "Learner Centric Classroom", "Effective Classroom Management and Joyful Teaching-Learning" by HRDI, DIU
- Training on "Blended Learning Center"
- Hands-on Training on "Making Interactive Video Lessons and Creating an Online Course"

Awards & Distinctions:

- Graduated with "Highest Distinction" (BRAC University)
- Vice Chancellor's Honor List (BRAC University)
- Dean's Honor List (BRAC University)
- Champion, Intra-University Programming Contest (2018)
- Merit-based scholarships (BRAC University)
- Talent pool scholarship recipient (Junior School Certificate Exam)

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C++
- **Data Analysis & Machine Learning:** Deep Learning frameworks (e.g., TensorFlow, PyTorch), scikit-learn
- **Tools & Technologies:** Git, Linux, Jupyter Notebook, Google Colab
- **Web Technologies:** Basic front-end (HTML, CSS) and back-end scripting
- **Databases:** MySQL, MongoDB (basic familiarity)

LEADERSHIP & EXTRACURRICULARS

Founder, *"Donate Blood, Save Lives ~ BracU"*   [2019– Present]

- Established a university-wide community to support emergency blood donation needs. Coordinated over 200 successful blood donations for patients in critical need. Organized awareness campaigns on the importance of blood donation.

Co-Founder, *"Stand for Bot-Tola"*   [2020]

- Launched an emergency response initiative during the COVID-19 pandemic to assist local families in crisis. Raised around 4000 USD in funds and distributed essential supplies, including food, to over 100 households.

Content Creator, *YouTube, Online Learning Platform*   [2020– Present]

- Developed educational video content and courses on computer science topics, including programming, data structures, and algorithms.
  - https://iou.ac/course/introduction-to-python-programming-VIdl

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