MD. MORSHED ALI

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EDUCATION

Jagannath University   **Jan 2018 – Jan 2023**
*BSc in Computer Science and Engineering - **3.73/4.0 Rank: 4th***   *Dhaka, BD*
GPA **4.0/4.0** in last two semesters **[Rank: 1st]**
Advisor: Prof. Nasir Uddin Mohammed and Prof. Md Ashraf Uddin

TEACHING EXPERIENCE

Uttara University ↗   **July 2023 – Present**
Lecturer, Dept. of Computer Science and Engineering   *Dhaka, BD*
- Instructing CS Major Courses and Advising Students
- Instructed Courses are
  - ⋆ Structured Programming Language
  - ⋆ Java Programming
  - ⋆ Data Structures & Algorithms
  - ⋆ Object Oriented Programming
  - ⋆ Discrete Mathematics
  - ⋆ Computer Architecture

RESEARCH INTEREST

Deep Learning, LLM, NLP Gen-AI, Explainable AI, ML, IoT in Healthcare, Education, and social good, Privacy and Security, Smart Transportation.

RESEARCH PUBLICATION

1. **Md. Morshed Ali***, Emran Ahmed, K. S. Kushal et al. **IoT-Driven Water Leak Detection: A Comparative Study of Machine Learning and Deep Learning Models for Time-Series Sensor Data with Explainable AI**, Sensor, 2025, [Submitted]

2. M. M. A. B. Atique, and **Md Morshed Ali*** et al. **A Deep Multimodal Approach for Accurate Bangla Handwritten Character and Digit Classification**, IEEE Transactions on Emerging Topics in Computing, 2025, [Submitted]

3. K. S. Kushal, **Md Morshed Ali***, and Mohammed Nasir Uddin, **Optimizing Incentive Adaptation for Mobile Crowd Sensing Using Federated and Reinforcement Learning with Explainable AI**, Pervasive and Mobile Computing, 2025, [Under Review]

4. **Md. Morshed Ali**, K. S. Kushal et al. **DFT-Net: Deep Fine Tuning EfficientNetB0 for Brain Tumor Classfication**, 2025, [In writing Phase]

5. M. M. A. B. Atique, and **Md Morshed Ali**, et al. **BanglaEduSet: A Benchmark Dataset of Bangla Handwritten Scripts from Elementary-Level Students** Scientific Data, 2025, [Under Review]

6. R. Haque, S. M. Shuvo1, S. I. Saiful, I. Miah, **Md Morshed Ali**, and D. S. M. N. Sadat, **Acb-trinet: Asymmetric convolutions and triplet attention for effective malware classification**, ICETCS, UK, 2025, [Accepted] **[Best Technical Award]**

7. H. H. Rupok, M. N. Hasan, P. Ghose, S. Ahmed, Md Morshed Ali, and N. Jahan, **Iot-integrated deep learning approach for automated disease monitoring in custard apple cultivation**, ITSS-IoE, UK, 2025, [Accepted]

8. **Md Morshed Ali***, S. Islam, M. N. Uddin, and A. Uddin, **A conceptual iot framework based on anova-f feature selection for chronic kidney disease detection using deep learning approach,** Intelligence-Based Medicine, p. 100170, 2024, [paper]

9. M.S.Islam, **Md Morshed Ali***, M. N. Uddin, M. A. Uddin, and K. S. Kushal, **A blockchain-based digital classified forensic image preservation framework,** 2024, Preprint, [paper]

PROGRAMMING PARTICIPATION

- **ACM - ICPC** Regional Programming Contest - 2019
- NSU Cybernauts National Programming Contest - 2019
- IUB Intra University Programming Contest - 2018

TECHNICAL SKILLS

Languages: Python, Java, C, C++, JavaScript, SQL, HTML, CSS
Developer Tools: VS Code, Android Studio, NetBeans, Codeblocks
Soft Skill: Problem Solving, Academic Research, Teaching, Training, Consultation

ACADEMIC PROJECT

Web-App: Online Course Management System [code]
Using tools: html, CSS, javascript, bootstrap, xamp server, mysql

EXTRACURRICULAR

™LLC Shabash Fakibaj ⤤   **July 2022 – July 2023**
Website Coordinator - Maintaining website and updating information   *Texas, USA*

IEEE Computer Society Bangladesh Chapter, JnU ⤤   **Jan 2022 – Dec 2023**
Chair - organizing programs for research collabation   *Dhaka, BD*

IEEE Student Branch, JnU ⤤   **Jan 2021 – Dec 2022**
Secretary - Leading events for career growth for undergraduate students   *Dhaka, BD*

AWARDS & CERTIFICATIONS

- University Yearly **Merit Scholarship**
- **Champion**, Intra Dept. Programming Contest, JnU
- **Board Scholarship**, Junior School Certificate
- Supervised ML: Regression and Classification - Coursera
- Machine Learning From Basic to Advanced- Udemy
- Python Core - Sololearn

REFERENCES

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