Mostofa Shariar Sanim

IT Enthusiast & Passionate Learner

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Portfolio | LinkedIn| GitHub| Google Scholar

Academic Credentials

Bachelor of Science in Computer Science & Engineering   CGPA: 3.78/4

Northern University of Business and Technology Khulna

March 2019 – March 2023

- **Courses**: Introduction to Computers, Structured Programming language, Mathematics I,II,III,IV, V, Physics I,II, OOP C++, Software Development I,II,III, Digital Logic Design, Data Structures, Algorithms Design and Analysis, Discrete Mathematics, Numerical Methods, Data Communication, Database Systems, Linear Programming and Combinatorial Optimization, Electrical Engineering and Circuit Analysis, Artificial Intelligence and Expert System, Compiler Design, Computer Networks, Neural Network, Computer Networks, Computer Graphics and Multimedia System, Information System and Design, Pattern Recognition, Embedded System, Mobile Computing, Database Management System, Computer Architecture, Communication Engineering, Operating System, Theory of Computation, Microprocessor and Assembly Language Programming.

Research Interest

- Machine Learning, Informatics, Deep Learning, IoT, Computer Vision, Artificial Intelligence.

Research Experience

Research Assistant; Supervisor: Ferdib-Al-Islam   Jan 2022 – March 2023

Northern University of Business and Technology Khulna

- Presented work at local and international scientific meetings.
- Assisted in collecting and analyzing data, examine literature reviews to gather relevant information and insights related to the research topic.
- Applied programming skills to develop and implement algorithms essential to the research objectives.
- Identified covid-19 from other upper respiratory tract infections on the basis of distinct symptoms of diseases.

Technical Skills

Programming Language:	C(Mid-Level) C++(Basic) Python(Mid-Level) Javascript(Basic) HTML(Mid-Level) CSS(Mid-Level).
Libraries:	NumPy Pandas Seaborn Matplotlib Scikit-Learn Keras TensorFlow PyTorch OpenCV
Database:	SQL, MySQL, MongoDB.
Digital System Design:	Arduino.
Operating System:	Windows Mac OSx Linux.
Other tools:	Git Latex Rapid Miner Studio Weka Ms Office.
Digital Design and Editing:	Adobe Photoshop Illustrator Canva Figma Inkscape.

Professional Experience

Daulatpur Online
Khulna, Bangladesh

Junior System Engineer
March 2023 - Present

- Server Monitoring
- Switch Monitoring
- Monitoring System Performance
- Troubleshooting and Debugging
- Client Support Based on System Necessity

Academic Honors and Awards

- Tuition waiver and Academic scholarship (CGPA: 3.75+ in a level) during undergraduate years.
- Govt. scholarship for good results in Secondary School Scholarship Exam
- Govt. sports & education scholarship for good results and promising talent in school level cricket.
- Champion - CSE IT Carnival NUBTK, Programming Contest 2022, (NPC-22).
- 1st Runner-up – BDC Intra School Debate Contest-2014 organized by Bangladesh Debating Society.

Extra-curricular Activities

- Former member of the Bangladesh Red Crescent Society (BDRCS).
- Instructor, ICT Department at Science Coaching, a non-profit center for economically challenged students, (2020-2022).
- Founder member (one of six) of GREEN DOOR BD, a non-profit environmental organization.
- Member of American Corner Khulna - U.S. Embassy in Bangladesh.
- Former Member of Khulna District under–18 cricket team.
- Participated in school and regional debate competitions.
- Interested in Current Affairs, Reading, Indie Folk Music, Cricket, Fishing, Travelling, Voluntary Work, Technologies and Designing New Ideas etc.

Projects

- Cafe Billing System with C Programming.
- Different Sensors Implementation with Arduino.
- Crop Recommendation Web App.
- Dynamic Medical Health Care Website.
- Voice Classification Using Machine Learning.
- Data mining for finding the correlation of COVID-19 and influenza disease.
- World Population Data Analysis project.

On Going Projects

- OCR Model with PyTorch and OpenCV.
- Application of Blockchain Technology in Health care.
- Parkinson Disease Detection Using TensorFlow.

Conference Proceedings

1. M. S. Sanim, Ferdib-Al-Islam and K. M. Hasan, "Identification of COVID-19 from Other Upper Respiratory Tract Infections Using Random Undersampling and LIME-based XAI Model," 2023 14th International Conference on Computing Communication and Networking Technologies (ICCCNT), Delhi, India, 2023, pp. 1-6, doi: 10.1109/ICCCNT56998.2023.10307102

2. Ferdib-Al-Islam, M. S. Sanim, K. Mehedi Hasan, M. M. Alam, M. A. A. Walid and M. R. Islam, "Crop-RecFIS: Machine Learning Classifiers for Crop Recommendation and Feature Importance Scores Calculation," 2023 14th International Conference on Computing Communication and Networking Technologies (ICCCNT), Delhi, India, 2023, pp. 1-6, doi: 10.1109/ICCCNT56998.2023.10307833

3. FA Islam, MS Sanim, MR Islam, S Rahman, R Afzal, KM Hasan, "Prediction of Dementia Using SMOTE Based Oversampling and Stacking Classifier"- HIS 2022: Hybrid Intelligent Systems pp 441–452, Lecture Notes in Networks and Systems book series (LNNS, volume 647), Springer Nature Switzerland, doi.org/10.1007/978-3-031-27409-1_40

4. FA Islam, R Robbani, MM Alam, MS Sanim, KM Hasan, "ADASEML: Hospitalization Period Prediction of COVID-19 Patients Using ADASYN and Stacking Based Ensemble Learning" - ANTIC 2022: Advanced Network Technologies and Intelligent Computing pp 3–15, Communications in Computer and Information Science book series (CCIS, volume 1798), Springer Nature Switzerland, doi.org/10.1007/978-3-031-28183-9_1

Journal Proceedings

1. MS Sanim, FA Islam et al., Alzheimer's disease prediction using anova-based feature selection with t-distributed stochastic neighbor embedding and ensemble learning; [submitted to IAES International Journal of Artificial Intelligence (IJ-AI)]

2. MS Sanim, FA Islam, KM Hasan et al., Different aspect of IoT applications in modern Agriculture a Systematic Review: A Review; [submitted to Future Generation Computer Systems, publisher-Elsevier]

Test Score

- Overall: 110 (LITERACY – 110 | COMPREHENSION - 120 | CONVERSATION – 105 | PRODUCTION - 90)

References

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   Northern University of Business and Technology Khulna
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   Northern University of Business and Technology Khulna
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