

# TOWHIDUL ISLAM



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## PROFILE SUMMARY

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I am an enthusiastic engineer who is keen to leave his comfort zone in search of new professional challenges. Having strong educational background and professional research experience have honed my skillsets to analyze problems from different perspectives. I am currently looking for a research opportunity in the Artificial Intelligence, Computer Vision, Medical Imaging and Biomedical Informatics field.

## RESEARCH INTERESTS

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Artificial Intelligence, Computer Vision, Medical Imaging, Biomedical Informatics

## EDUCATION

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Bachelor of Science in Computer Science & Engineering March, 2014 - November, 2018  
Rajshahi University of Engineering & Technology (RUET), Rajshahi, Bangladesh  
CGPA: 3.70/4.0

Thesis Title: Cancer Diseases Prediction using Data Mining Techniques

Supervisor: Mahit Kumar Paul, Assistant Professor, Dept. of CSE, RUET

Co-supervisor: Dr. AHM Sarowar Sattar, Professor, Dept. of CSE, RUET

## PROFESSIONAL EXPERIENCE

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**Lecturer** October, 2019 - Present

Department of Computer Science and Engineering

Northern University Bangladesh (NUB)

### Teaching Area:

*Artificial Intelligence and Expert System, Algorithms, Image Processing and Computer Vision,*

*Data Structure, Structured Programming Language-I (C Programming), Digital Electronics and Pulse Techniques,*

*Computer Graphics and Multimedia System Design, Introduction to Computer System and IT*

### Part-time Lecturer (Computer)

May, 2019 - July, 2021

Department of Textile Machinery Design and Maintenance

Bangladesh University of Textiles (BUTEX)

### Teaching Area:

*Computer Programming (C Programming), Database Management System*

### Lecturer

January, 2019 - April, 2019

Department of Computer Science and Engineering

North Bengal International University (NBIU), Rajshahi, Bangladesh

### Teaching Area:

*Object Oriented Programming-II (Java Programming), Data Structure, Microprocessor and Assembly Language*

## RESEARCH PUBLICATIONS

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- Morshed, A.; Al Shihab, A.; Jahin, M.A.; Al Nahian, M.J.; Sarker, M.M.H.; Ibne Wadud, M.S.; Uddin, M.I.; Siraji, M.I.; Anjum, N.; Shristy, S.R.; Rahman, T.; Khatun, M.; Javed, F.I.; Dewan, M.R.; Hossain, M.; Sultana, R.; Chakma, R.; Emon, S.B.; **Islam, T.**; Hussain, M. Ultrasound-Based AI for COVID-19 Detection: A Comprehensive Review of Public and Private Lung Ultrasound Datasets and Studies. Preprints.org 2023, 2023030296.  
<https://doi.org/10.20944/preprints202303.0296.v1>.

- Hussain, M.A., **Islam, T.**, Chowdhury, F.U.H. and Islam, B.R., 2022. Can artificial intelligence detect monkeypox from digital skin images?. BioRxiv, pp.2022-08.
- **Islam T**, Hussain MA, Chowdhury FU, Riazul Islam BM. A web-scraped skin image database of monkeypox, chickenpox, smallpox, cowpox, and measles. bioRxiv. 2022 Aug 2:2022-08.

## SELECTED WORK IN PROGRESS

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- A survey on artificial intelligence for x-ray based covid-19 detection using public data [submission phase] – collaborating with Dr. Mohammad Arafat Hussain, a research fellow at Harvard Medical School.
- A survey on artificial intelligence for ct scan based covid-19 detection using public data [submission phase] – collaborating with Dr. Mohammad Arafat Hussain, a research fellow at Harvard Medical School.

## TECHNICAL SKILLS

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<b>Programming Language</b>	C, C++, Python, Java, Assembly
<b>Artificial Intelligence</b>	Machine Learning, Deep Learning
<b>Programming Frame Works</b>	PyTorch, TensorFlow, Caffe
<b>Data Analysis</b>	Python, Matlab, Weka, Kaggle, R Programming, Google Colab
<b>Database</b>	MySQL
<b>Familiar IDE</b>	CodeBlocks, NetBeans, Jupyter Notebook, Spyder, Anaconda

## COURSE COMPLETION

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<b>Course Title: Fundamentals of Research Methodology</b>	March, 2022 - April 2022
<b>Course Instructor: Md Nazmul Hasan</b> , PhD Researcher, The University of British Columbia, Vancouver, Canada	

## TEST SCORES

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**IELTS:** Overall: 6.5, Listening: 6, Reading: 6.5, Writing: 5.5, Speaking: 7

## EXTRA-CURRICULAR ACTIVITIES, AWARDS AND ACHIEVEMENTS

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- **Deans scholarship** for obtaining gpa above 3.75 out of 4.0 (in total three times out of eight semesters)
- **University technical scholarship** for securing standard result in every semester examination
- **Vice-President** at Greater Khulna Association of RUET (GKA-RUET)
- **Member of Champion Cricket Team** in the Annual Sports 2015
- **Member of Runner's up Football Team** in the Annual Sports 2016
- **Volunteer** of National Collegiate Programming Contest (NCPC) held at RUET
- **Participated** in 7<sup>th</sup> National Undergraduate Mathematics Olympiad , 2015
- **Participated** in 9<sup>th</sup> National Undergraduate Mathematics Olympiad , 2017

## PROFILE LINK

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**Google Scholar:** <https://scholar.google.com/citations?user=JfhHoLYAAAAJ&hl=en>

**Github:** <https://github.com/towhidulislam133086>

## REFERENCES

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Dr. AHM Sarowar Sattar  
Professor, Department of CSE,  
RUET

Mahit Kumar Paul  
Assistant Professor, Department of CSE,  
RUET