

# SADMAN SAKIB AKASH

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[LinkedIn](#) ◊ [GitHub](#) ◊ [Google Scholar](#) ◊ [Personal Website](#)

## ACADEMIC CREDENTIALS

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Master of Science (M.Sc.) in Computer Science and Engineering  
BRAC University, Dhaka, Bangladesh

*January, 2020 – Present*  
*CGPA : 4.00/4.00 (18/36 credits)*  
Expected completion time *April, 2022*

Bachelor of Science (B.Sc.) in Computer Science  
BRAC University, Dhaka, Bangladesh

*January, 2014 – December, 2018*  
*CGPA : 3.56/4.00*

## RESEARCH EXPERIENCE

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M.Sc. Research Work

*March, 2021 – Present*

Thesis title: “*A Blockchain based system for Healthcare Digital Twin*”.

A concrete Mathematical Data Model has been developed to collect data structurally and to harmonize with the proposed blockchain based healthcare digital twin.

Research Supervisor: Dr. Md Sadek Ferdous

Expected completion time *April, 2022*

M.Sc. Course Work (Decision Support Systems: CSE799)

*September, 2020 – December, 2020*

Research title: “*Intelligent Fuzzy-AHP and VIKOR based Personalized Product Recommendation System*”.

A recommendation system incorporating Analytical Hierarchical Process (AHP), Fuzzy Analytical Hierarchical Process (Fuzzy-AHP), and Vikor, which can recommend specific type of an item to specific user by assessing the collected data.

Research Supervisor: Dr. Md. Golam Rabiul Alam

M.Sc. Course Work (Computer Communication and Networks: CSE705)

*January, 2021 – March, 2021*

Research title: “*An Empirical Analysis Between Run-length and Dictionary Compression Technique*”.

The code have been implemented for comparing two of the lossless compression technique: Run-length and Dictionary compression algorithm for specific reasoning. Moreover, the favorable states for which these two compression algorithms can be used is stated according to the acquired result.

B.Sc. Research Work

*January, 2018 – December, 2018*

Thesis title: “*Proof of Rigor: Consensus Protocol on a Cryptocurrency Scheme*”.

A consensus protocol have been proposed and delineated with proper structure and operations.

Research Supervisor: Dr. Mahbubul Alam Majumdar

## PROFESSIONAL EXPERIENCE

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Lecturer (Part-time)

*September, 2019 – May, 2020*

Department of Computer Science and Engineering

BRAC University, Dhaka, Bangladesh

## PUBLICATION

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“*A Blockchain based system for Healthcare Digital Twin*” - submitted to MDPI Journal.

“*Intelligent Fuzzy-AHP and VIKOR based Personalized Product Recommendation System*” - submitted to International Conference on Innovations in Science, Engineering and Technology 2022 (ICISSET 2022).

“*An Empirical Analysis between Run-length and Dictionary Compression Technique*” - submitted to International Conference on Innovations in Science, Engineering and Technology 2022 (ICISSET 2022).

## AFFILIATIONS

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Member of BRAC University Computer Club, BRAC University. ID: 18341007

## PROJECTS

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Distributed Computing Systems course project: “Blockchain-based Land Registration”  
Proposed draft model.

M.Sc. 1<sup>st</sup> Semester

Software Engineering course project: “Nutriment Updater”  
Tools: Html, CSS, JavaScript, PHP, MySQL.

B.Sc. 10<sup>th</sup> Semester

## STANDARDIZED TEST SCORES

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Graduate Record Examinations (GRE)

(Test Taking Date: 29<sup>th</sup> July, 2020)

Overall	Quantitative Reasoning	Verbal Reasoning	Analytical Writing
308	159	149	3.0

International English Language Testing System (IELTS)

(Test Taking Date: 26<sup>th</sup> October, 2021)

Overall	Writing	Listening	Reading	Speaking
7.0	6.0	8.5	6.0	6.5

## EXTRA-CURRICULAR ACTIVITIES

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Seminar at BRAC University on “Introduction to Blockchain”.  
Role: Speaker  
Participants: 47 Students and 7 Faculties.

30<sup>th</sup> June, 2019

BRACathon'19 - Technology for Social Change  
Micro-finance Sector (Runners-up)  
Group name: BRACU.CryptoRangers.

4<sup>th</sup> July, 2019

## TECHNICAL SKILLS

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|-------------------|--------------|
| 1. Java           | 6. HTML      |
| 2. Python         | 7. Microsoft |
| 3. Android Studio | 8. LaTeX     |
| 4. JavaScript     |              |
| 5. PHP            |              |

## LINGUISTIC PROFICIENCY

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| 1. English (Full professional proficiency) | 2. Bangla (Full professional proficiency) |
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## REFERENCES

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| 1. Mahbubul Alam Majumder, PhD<br>BRAC University<br>Professor and Dean<br>School of Data and Sciences, Department of Mathematics and Natural Sciences<br>E-mail: <a href="mailto:majumdar@bracu.ac.bd">majumdar@bracu.ac.bd</a> | 2. Md Sadek Ferdous, PhD<br>BRAC University<br>Associate Professor<br>Department of Computer Science and Engineering<br>E-mail: <a href="mailto:sadek.ferdous@bracu.ac.bd">sadek.ferdous@bracu.ac.bd</a> |
| 3. Md. Golam Rabiul Alam, PhD<br>BRAC University<br>Associate Professor<br>Department of Computer Science and Engineering<br>E-mail: <a href="mailto:rabiul.alam@bracu.ac.bd">rabiul.alam@bracu.ac.bd</a>                        |  |