

## S.M. SHOVAN

Holding No: 896-01.

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### SUMMARY

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Research enthusiast with two years of teaching experience. Confident in working on different branches of machine learning, deep learning and artificial intelligence. Goal is to bring new knowledge into the world.

### EDUCATION

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M.Sc. in Computer Science & Engineering 2019-Current  
Rajshahi University of Engineering & Technology (RUET), Bangladesh  
CGPA: 3.875 (current) / 4.00

B.Sc. in Computer Science & Engineering 2014-2018  
Rajshahi University of Engineering & Technology (RUET), Bangladesh  
CGPA: 3.96/ 4.00, First Class with Honors (First Merit Position)

Thesis: *Prediction of Lysine Glycation PTM site in Protein using Peptide Sequence Evolution based Features, 2017-18*  
Supervisor: Dr. Md. Al Mehedi Hasan (Professor) Email: mehedi\_ru@yahoo.com

### TEACHING EXPERIENCE

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**Lecturer** November 2019 – Present  
Department of Computer Science & Engineering  
Rajshahi University of Engineering & Technology (RUET), Bangladesh

**Lecturer** February 2019 – September 2019  
Department of Computer Science & Engineering  
United International University (UIU), Bangladesh

### RESEARCH INTERESTS

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- Bioinformatics
- Machine Learning
- Deep Learning
- Artificial Intelligence
- Natural Language Processing
- Image processing

### AWARDS

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#### University Gold Medal

Awarded by the President of Bangladesh for holding the first merit position in the department

**Best Student Award**

Awarded by the Vice-chancellor of RUET for the excellent academic score

**LANGUAGES**


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Bengali	Native Language
English	Fully Fluent in English

**PROGRAMMING SKILLS**


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Python  
C, C++  
MATLAB  
LaTeX  
HTML, CSS, JavaScript, NodeJS, Django  
Java

**RELEVANT COURSES TAKEN**


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CSE 4221	Data Mining
CSE 4204	Neural Networks and Fuzzy Systems
CSE 4105	Digital Image Processing
CSE 3209	Artificial Intelligence

**RELEVANT COURSES CONDUCTED**


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CSE 4893	Introduction to Bioinformatics
CSE 3107	Applied Statistics and Queuing Theory

**PUBLICATIONS****Journal**

1. M. E. Arafat, M. W. Ahmad, **S. M. Shovan**, A. Dehzangi, S. R. Dipta, M. A. M. Hasan, G. Taherzadeh, S. Shatabda, and A. Sharma, "Accurately Predicting Glutarylation Sites Using Sequential Bi-Peptide-Based Evolutionary Features," *Genes*, vol. 11, no. 9, p. 1023, Aug. 2020, doi: 10.3390/genes11091023.

**Conferences**

2. **S. M. Shovan** and M. A. M. Hasan, "Prediction of Lysine Glycation PTM site in Protein using Peptide Sequence Evolution based Features," *2019 International Conference on Electrical, Computer and Communication Engineering (ECCE)*, Cox'sBazar, Bangladesh, 2019, pp. 1-5, doi: 10.1109/ECACE.2019.8679407.
3. **S. M. Shovan**, M. A. M. Hasan and M. R. Islam, "Accurate Prediction of Formylation PTM Site using Multiple Feature Fusion with LightGBM Resolving Data Imbalance Issue," *2020 23rd International Conference on Computer and Information Technology (ICCIT)*, 2020, pp. 1-6, doi: 10.1109/ICCIT51783.2020.9392678.
4. **S. M. Shovan**, M. Al Mehedi Hasan and M. R. Islam, "Improved Prediction of Glutarylation PTM Site using Evolutionary Features with LightGBM Resolving Data Imbalance Issue," *2021*

*International Conference on Information and Communication Technology for Sustainable Development (ICICT4SD)*, 2021, pp. 141-145, doi: 10.1109/ICICT4SD50815.2021.9396995.

5. Husnul Abid, Nusrat Jahan Jenny, **S. M. Shovan**, "Improved Identification Performance of Lysine Glycation PTM using PSI-BLAST," *2020 IEEE Region 10 Symposium (TENSYP)*, Dhaka, Bangladesh, 2020, pp. 18-21, doi: 10.1109/TENSYP50017.2020.9231035.
6. Md Wakil Ahmad, Md Easin Arafat, **S. M. Shovan**, Mahtab Uddin, Omar Faruq Osama, Swakkhar Shatabda, "Enhanced Prediction of Lysine Propionylation Sites using Bi-peptide Evolutionary Features Resolving Data Imbalance," *2020 IEEE Region 10 Symposium (TENSYP)*, Dhaka, Bangladesh, 2020, pp. 1668-1671, doi: 10.1109/TENSYP50017.2020.9230466.

### Unpublished Papers

7. Md. Rakibul Islam, Abdul Matin, Md. Nahiduzzaman, Md. Saifullah Siddiquee, Fahim Md. Sifnatul Hasnain, **S.M. Shovan**, Tonmoy Hasan, "A Novel Deep Convolutional Neural Network Model for Detection of Parkinson Disease by Analyzing the Spiral Drawing," unpublished.

### Work in progress

8. Tentative title: "iCon-Site: Identifying Concurrent Lysine Modification Sites of Protein with Optimized Features"
9. Tentative title: "Explainable Autoencoder For Multi-Class Cancer Classification of High Dimensional Gene Expression Rna-Seq Data"

### CERTIFICATIONS

Deep Learning Specialization	2020
Issuing Organization: Coursera, Credential ID: UR33QPWUW4DR	
Emerging Technologies Workshop: Network Programmability with Cisco APIC-EM	2020
Issuing Organization: Cisco	
Machine Learning	2017
Issuing Organization: Coursera, Credential ID: 3X8GA5KEARH9	

### ACADEMIC PROJECT EXPERIENCE

<b>Hardware: Logging Real-time Temperature and Humidity from Environment</b>	2018
A temperature and humidity monitoring tool sensed using raspberry Pi and sensors. github.com/SMShoven/temphumpro	
<b>Graphics: Eve-teasing Consciousness</b>	2018
An OpenGL graphics project created for spreading consciousness in societies. github.com/SMShoven/EveTeasingGraphcisCpp	
<b>Web Development: Blood Donation</b>	2017
A website for connecting the blood donors and needers. github.com/SMShoven/Blood-Donation-web-project	

**OOP: A Flag Identification Quiz and Learning App**

2016

A Java based quiz app developed for learning and testing flags around globe.  
[github.com/SMSHovan/Identify-Flags](https://github.com/SMSHovan/Identify-Flags)

**CONFERENCE ATTENDED**

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IEEE Region 10 Symposium (TENSYP) 2020.  
Organized by. IEEE Bangladesh Section

June 2020

International Conference on Electrical, Computer & Telecommunication  
Engineering

December 2019

Organized by, Faculty of Electrical & Computer Engineering, RUET, Bangladesh

International Conference on Electrical, Computer and Communication  
Engineering

February 2019

Organized by, Faculty of Electrical & Computer Engineering, CUET, Bangladesh

**REFERENCE**

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- Dr. Md. Al Mehedi Hasan, Professor, Dept. of Computer Science and Engineering, Rajshahi University of Engineering & Technology, Bangladesh (Undergrad thesis supervisor). Email: [mehedi@u-aizu.ac.jp](mailto:mehedi@u-aizu.ac.jp)
- Dr. Md. Rabiul Islam, Professor, Department of Computer Science & Engineering, Rajshahi University of Engineering & Technology, Rajshahi, Bangladesh (Teacher). Email: [rabiul\\_cse@cse.ruet.ac.bd](mailto:rabiul_cse@cse.ruet.ac.bd), Cell: +88-0171541 8938
- Swakkhar Shatabda, Associate Professor, Department of Computer Science and Engineering (CSE), United International University (UIU), Dhaka, Bangladesh (Co-author and former colleague). Email: [swakkhar@cse.uiu.ac.bd](mailto:swakkhar@cse.uiu.ac.bd), Cell: +88-01776195310