A. S. M MAHMUDUL HASAN

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CURRICULUM VITAE

Date of Birth: December 6, 1986
Place of Birth: Dhaka
Citizenship: Bangladesh

EDUCATION

2020 - Present	**PhD Student in Information Technology** *Murdoch University, WA, Australia*
2009 – 2010	**Master of Science in Computer Science and Engineering,** *Jahangirnagar University* ***Study Emphasis:*** *Digital Signal Processing and Computer Networks* ***CGPA:*** *3.63 (in a scale of 4.00)*
2005 - 2009	**Bachelor of Science(Hons.) in Computer Science and Engineering,** *Jahangirnagar University* ***CGPA:*** *3.66 (in a scale of 4.00)*
2002 – 2004	**Higher Secondary School Certificate (HSC),** *Mirzapur Cadet Collage, Dhaka Board* ***GPA:*** *4.90 (in a scale of 5.00)*
2000 – 2002	**Secondary School Certificate (SSC),** *Mirzapur Cadet Collage, Dhaka Board* ***GPA:*** *4.88 (in a scale of 5.00)*

Master's Thesis

Title	***Defining The Structure of Bangla Noun Phrase and Developing Rules for UNL.***
Supervisor	Dr. Jugol Krishna Das, Professor, Department of Computer Science and Engineering, Jahangirnagar University
Description	This thesis defines Bangla sentence structure and how the noun phrases are used in Bangla. According to the structure of the noun phrase we have developed some rules. By using these rules we can now convert a complex noun phrase into UNL which was not possible before.

Bachelor's Thesis

Title	***Performance Analysis of Different Smoothing Methods on n-grams for Statistical Machine Translation.***
Supervisor	Muhammad Arifur Rahman, Assistant Professor, Department of Physics, Jahangirnagar University
Description	This thesis evaluate the performance of three most widely-used smoothing algorithms for language modeling: Witten-Bell smoothing, Kneser-Ney smoothing, and Modified Kneser-Ney smoothing. For the evaluation BLEU (Bilingual Evaluation Understudy) and NIST (National Institute of Standards and Technology) scoring techniques were used.

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Experience

18 May, 2018 - Present	**Assistant Professor,** Computer Science and Engineering, School of Science and Technology, Bangladesh Open University, Bangladesh.

Conduct theory and practical courses for undergraduate students at different capabilities, participate in administrative activities as member of different departmental and university committees and assist students in co-curricular & extra-curricular activities.

Jan, 2015 – 17 May, 2018	**Lecturer,** Computer Science and Engineering, School of Science and Technology, Bangladesh Open University, Bangladesh.
Jan, 2014 – Dec, 2014	**Assistant Professor,** Department of CSE/IT, University of Information Technology and Sciences, Bangladesh.

Performed Academic, Research & Administrative Duties.
Detailed Description:

- *Theory and Practical Courses Conducted:*
    - *Object Oriented Programming Lab (Java)*
    - *Pattern Recognition*
    - *Digital Logic Design*
    - *Computer Algorithms*
    - *Discrete Mathematics*
    - *Computer Programming with C*
    - *Computer Networks*
    - *Database Management Systems*
    - *Data Structure*
    - *Object Oriented Analysis and Design*
    - *Artificial Intelligence*
    - *Design Pattern*
    - *Computer Architecture*
- *Thesis/Project Supervision:*
    - *Developing a Rule Based English to Bangla Machine Translator*
    - *Doctor's Chamber Management System*

Nov, 2012 – Oct, 2013	**Lecturer,** Department of CSE, Hamdard University Bangladesh, Bangladesh

Performed Academic & Administrative Duties as assigned

Jun, 2010 – Oct, 2012	**Lecturer,** Department of CSE, IBAIS University, Dhaka, Bangladesh.
	Performed Academic, Research & Administrative Duties.

Publication

2019	Raihan Uddin Ahmed, Tanvir Ahmed Chowdhury, A. S. M Mahmudul Hasan (2018). New Algorithm For Detection of Spinal Cord Tumor using OpenCV. Global Journal Of Computer Science And Technology, Vol 18, No 1-F (2019).
2016	Islam, S., & **Mahmudul, A.** (2016). Use of Technology in Open and Distance Education: A Guideline for the Educational Institutions in Bangladesh. International Journal of Applied Information Systems, 10(4), 1-5. doi:10.5120/ijais2016451481
2015	1. Uddin, R., **Mahmudul, A.**, Afroza, M., Ishtiaq, M., & Fatama, U. (2015). Jonaki - An mLearning Tool to Reduce Illiteracy in Bangladesh. International Journal of

Computer Applications, 128(17), 21-25. doi:10.5120/ijca2015906761

2. Yoder, D. , Ahmed, R. U. , Barkatullah, M. , & Hasan, A. S. M. M. (2015). A Zigzag Approach to Cascading Menus. Journal of Computer Sciences and Applications, 3(4), 94-99.

2013   1. Islam, S., & **Hasan, A. S.** (2013). Implementation of Shamir's Secret Sharing on Proactive Network. International Journal of Applied Information Systems, 6(2), 17-22. doi:10.5120/ijais13-451003

2. Md. Hasan Tareque, Golam Dastoger Bashar, Saria Islam and **A. S. M Mahmudul Hasan**. "Contour Based Face Recognition Process", International Journal of Computer Science & Engineering Technology, July 2013, Volume-3, Issue- 7, Pp: 244-248. India.

3. **A. S. M Mahmudul Hasan**, Saria Islam, Dr. Jugal Krishna Das and Golum Farook Ahmed. "Defining the Structure of Bangla Noun Phase and Developing Rules for UNL". International Journal of Scientific and Engineering Research, 2013, volume-4, Issue-5, May-2013, Pp: 1803-1808. IJSER Publication, Houston, USA.

2012   1. **A. S. M Mahmudul Hasan**, Saria Islam and M. Arifur Rahman. "Performance Analysis of Different Smoothing Methods on n-grams for Statistical Machine Translation", International Journal of Computer Applications, 2012, volume-46, number-2, Pp: 45-51, Foundation of Computer Science, New York, USA.

2. **A. S. M Mahmudul Hasan**, Saria Islam and M. Arifur Rahman. "A Comparative Study of Witten Bell and Kneser-Ney Smoothing Methods for Statistical Machine Translation", Janangirnagar University Journal of Information and Technology, volume-1, June 2012, Pp: 1-6. Dhaka, Bangladesh.

Technical Skills

Programming Language	Prolog, LISP, C, C++, Java, Assembly Language, C#.
Scripting Language	HTML, CSS, JavaScript and PHP.
Simulation	PSpice, Verilog, MATLAB, SIMULINK
Tools	Microsoft Visual Studio, JDK, J2me, Macromedia Dreamweaver, ArgoUML, Netbeans, Idea.
Database	MySQL, Microsoft SQL Server, Oracle.
Operating Systems	Microsoft Windows, Linux, Solaris, FreeBSD.

Professional Membership

2014 - Present	Member, Institute of Electrical and Electronic Engineers (IEEE)

Languages

Bengali	Mother tongue
English	Good User (*IELTS score Overall: 7.0, Listening: 8.5, Reading:7.0, Writing:6.5, Speaking: 6.5*)

Professional Courses

2008	CCNA course from BUET.

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References

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Email: cedas@juniv.edu, Cellular: (088) 01712-509082

Dr. M. Arifur Rahman, Assistant Professor, Department of Physics, Jahangirnagar University.
Email: arif@juniv.edu, Cellular: (088) 01726428888

Dr. K. M. Rezanur Rahman, Professor, School of Science and Technology, Bangladesh Open University.
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