Md. Shajalal

Lecturer
Department of Computer Science & Engineering
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Research Interests

My research interests encompass information retrieval, sentiment analysis, and natural language processing. Currently, I am doing research in the field of web search.

Education

Sep 2017	**Master of Engineering** Department of Computer Science & Engineering Toyohashi University of Technology, Toyohashi, Aichi, Japan. Major CGPA: **4.00** on a scale of 4.00
Apr 2015	**Bachelor of Science & Engineering** Department of Computer Science & Engineering University of Chittagong, Chittagong-4331, Bangladesh. CGPA: **3.84** on a scale of 4.00 Rank: **2nd** among a graduating class of 50 Students.
Sep 2008	**Higher Secondary Certificate** (12th grade) Science Group of Rajshahi Education Board Tista College, Lalmonirhat, Bangladesh. GPA: **5.00** on a scale of 5.00
Jun 2006	**Secondary School Certificate** Science group of Rajshahi Education Board, Tista K R khadem High School, Lalmonirhat, Bangladesh. GPA: 4.81 on a scale of 5.00

Thesis

Master's Thesis	**Mining and Diversifying Query Subtopics from Web Documents Focusing on Sematic Features** Supervisor: Professor Masaki Aono, Ph.D. (USA)
Undergraduate Thesis	**Ensuring Security of the Centralized Persistent Computing System** Supervisor: Assoc. Professor Muhammad Anwarul Azim

Professional Experience

Nov 2017-Present	**Lecturer** Department of Computer Science and Engineering Bangladesh Army University of Science and Technology, Saidpur, Bangladesh.
Oct 2015-Sep 2017	**Research Assistant** Knowledge Data Engineering and Information Retrieval Lab Toyohashi University of Technology, Japan.
May 2015 - Sep 2015	**Software Engineer** Kona Software lab Limited Z Tower, House #4, Road #132, Gulshan, Dhaka, Bangladesh.
Nov 2014 - Apr 2015	**Junior Software Engineer** Bit Mascot Pvt. Limited Road #17, New Mohakhali DOHS, Dhaka, Bangladesh

Publications

1. **Md Shajalal**, Md Zia Ullah, Abu Nowshed Chy, and Masaki Aono "Query Subtopic Diversification based on Cluster Ranking and Semantic Features," *IEEE International Conference on Advanced Informatics: Concepts, Theory and Application (IEEE ICAICTA 2016)*, pp(1-6), Penang, Malaysia, Aug. 2016.
2. Md Zia Ullah, **Md Shajalal**, Abu Nowshed Chy, and Masaki Aono, "Query Subtopic Mining Exploiting Word Embedding for Search Result Diversification," *Twelfth Asia Information Retrieval Societies Conference (AIRS 2016)*, pp(308-314), Beijing, China, Nov. 2016. (**Best Presentation Award**)
3. Md Zia Ullah, **Md Shajalal**, and Masaki Aono, "KDEIM at NTCIR-12 IMine-2 Search Intent Mining Task: Query Understanding Through Diversified Ranking of Subtopics," *Proceedings of the Twelfth NTCIR Conference on Evaluation of Information Access Technologies,* NII, Tokyo, Japan, 2016.
4. Abu Nowshed Chy, Md Zia Ullah, **Md Shajalal**, and Masaki Aono, "KDETM at NTCIR-12 Temporalia Task: Combining a Rule-based Classifier with Weakly Supervised Learning for Temporal Intent Disambiguation," *Proceedings of the Twelfth NTCIR Conference on Evaluation of Information Access Technologies,* Japan, 2016.

Scholarships

MEXT (Monbukagakusho) Scholarship   Oct 2015 – Sep 2017
Awarded by MEXT (Ministry of Education, Culture, Sports, Science and Technology) for International Masters Program in Computer Science & Engineering at Toyohashi University of Technology, Japan.

University Merit Scholarship   Academic year: 2009/10 – 2010/11
Awarded for academic excellence during B.Sc.(Engg.) studies at University of Chittagong, Bangladesh

Major Research Projects

1. Query Subtopic Mining: Generally, users are laconic in describing their search intention when submitting query into the search engine. Therefore, a large number of search queries are usually short, ambiguous, and have multiple interpretations. The task of identifying possible subtopics with diverse intents underlying such queries is known as subtopic mining, where a subtopic string is a query that specializes and/or disambiguates the search intent of the original query. This project is aimed at mining and diversifying query subtopics underlying a query.

2. Search Result Diversification: With the gigantic size of the Web, ignoring the information needs underlying a query can misguide the search engine. To tackle this problem, an effective approach is to diversify the search results for the query. It aims to select diverse documents considering the information needs or subtopics for the query in order to cover as many search intents as possible. The objective of this project is to diversify the search results exploiting coverage-based subtopic modeling.

Undergraduate Projects

Artificial Intelligence:	Development of an AI system (Medical Diagnostic System)
Software Engineering:	Development of an Online Meeting Management System
Database:	Developed & Implemented Computerized Voting System

Awards

Best Presentation Award   Dec 2016
Awarded in 12th Asia Information Retrieval Societies Conference 2016 (AIRS2016), Beijing, China

Divisional Champion   2013
Awarded in the ACM-ICPC Dhaka Site Regional Programming Contest held at North South University in 2013

First Runner Up   2012

Awarded in FIRST INTER UNIVERSITY PROJECT SHOW CASE organized by Dhaka University IT Society (DUITS)

Awards for Programming Contest   2011 – 2013

1. CUET FEST INTER UNIVERSITY PROGRAMMING CONTEST 2013. Rank: 11th
2. NATIONAL COLLEGIATE PROGRAMMING CONTEST 2012. Rank: Honorable Mention
3. ACM-ICPC DHAKA SITE REGIONAL PROGRAMMING CONTEST, 2011. Rank: Honorable Mention
4. CU INTER UNIVERSITY PROGRAMMING CONTEST 2011. Rank: **8th**
5. SUST INTER UNIVERSITY PROGRAMMING CONTEST, 2011. Rank: Honorable Mention
6. BGC-TUB INTER UNIVERSITY PROGRAMMING CONTEST 2011. Rank: **10th**

TECHNICAL SKILLS

PROGRAMMING LANGUAGES:	C, C++, C#, Java, Python, Groovy, SQL, R, 8086 Assembly
WEB DEVELOPMENT:	HTML, CSS, JAVASCRIPT, XML
API AND TOOLKITS:	LaTex, Shell Script, MATLAB, PyTorch, Indri Search Engine
IDE EXPERIENCE:	IntelliJ IDEA , Eclipse, Net Beans, Code Blocks, PHP Designer

LANGUAGES

BENGALI:	Mother tongue
ENGLISH:	Fluent (Speaking, Reading and Writing)
JAPANESE:	Basic Knowledge (Speaking and Listening)

TALKS

ICAICTA Conference 2016   AUG 2016
International Conference on Advanced Informatics: Concepts, Theory and Application, Parkroyal Penang Resort, Penang, Malaysia.

The Twelfth NTCIR Conference   JUL 2016
National Institute of Informatics (NII), Tokyo, Japan.

INTERESTS AND ACTIVITIES

- Arranged several programming contest as problem setter, judge.
- Worked on several seminar and conference as volunteer.
- Solving problem in Uva Online Judge, topcoder, codechef, and lightOJ
- Solved problem in Uva Online Judge: **415+** . Profile: shajalal cheat coder

PERSONAL INFORMATION

Name:	Md. Shajalal
Father's name:	Late Mahfuzar Rahaman
Mother's Name:	Most. Ramija Begum
Date of Birth:	DEC 06, 1990
Nationality:	Bangladeshi.
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REFERENCE

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