

FALGUNI ROY

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Google Scholar: scholar.google.com/citations?user=rl4I2U4AAAAJhl=en



OBJECTIVE

To use my skill and experience and thereby to promote a positive atmosphere and higher quality education among students. Seeking a responsible academic position as a researcher and assistant professor to use my abilities and experience effectively and efficiently for students in the area of Software Engineering and have acquisition for learning and developing new skills.

RESEARCH INTEREST

Recommender System, Data Mining, Information Retrieval, IoT

EDUCATION

Institute of Information Technology, University of Dhaka; Bangladesh

MSc in Software Engineering

CGPA: 3.46/4.00

Jan. 2014 –June 2015

– Thesis: “User Similarity Computation for Collaborative Filtering Using Dynamic Implicit Trust”

Institute of Information Technology, University of Dhaka; Bangladesh

BSc in Software Engineering

CGPA: 3.60/4.00

Jan. 2010 –Dec. 2013

PUBLICATIONS

Conference Papers

1. **F. Roy**, S. M. Sarwar, and M. Hasan, “User Similarity Computation for Collaborative Filtering Using Dynamic Implicit Trust”, *The 4th International Conference on Analysis of Images, Social Networks, and Texts*, pages: 236-242, 9th – 11th April, 2015, Yekaterinburg, Russia.
2. S. D. Barman, M. Hasan, **F. Roy**, “A Genre-Based Item-Item Collaborative Filtering: Facing the Cold-Start Problem”, *8th International Conference on Software and Computer Applications (ICSCA 2019)*, February 19-22, 2019, Penang, Malaysia.

Journal Articles

1. M. Hasan, **F. Roy**, T. Hasan, L. Jamal, “A Comprehensive Collaborating Filtering Approach using Extended Matrix Factorization and Autoencoder in Recommender System”, *International Journal of Advanced Computer Science and Applications (IJACSA)*. 2019 July; 10(6);
2. M. Hasan, **F. Roy**, “An Item–Item Collaborative Filtering Recommender System Using Trust and Genre to Address the Cold-Start Problem”. *Big Data and Cognitive Computing (BDCC)*. 2019 Sep; 3(3):39.

3. B. Biswas, S. K. Roy, **F. Roy**, "Students Perception of Mobile Learning during COVID-19 in Bangladesh: University Student Perspective". *Aquademia*, 2020 July; 4(2), ep20023.
4. **F. Roy**, M. Hasan, "An Item–Item Collaborative Filtering Recommender System Based on Item Reviews: An Approach with Deep Learning". *Computational Intelligence* (under review)
5. **F. Roy**, "A Comparative Analysis of Different User-User Trust Metrics in Trust-Based Recommender Systems". *IEEE Access* (under review)

PROFESSIONAL EXPERIENCE

Assistant Professor

Institute of Information Technology
Noakhali Science & Technology University; Bangladesh

Nov. 2019 –Present

Lecturer

Institute of Information Technology
Noakhali Science & Technology University; Bangladesh

Nov. 2017 –Nov. 2019

Software Quality Assurance Engineer

Orion Informatics Ltd.; Bangladesh

Jan. 2014 –Nov. 2017

Intern- Software Quality Assurance

Orion Informatics Ltd.; Bangladesh

Jan. 2013 –June 2013

SKILLS

- **Computer Programming:** C, HTML, Java, PHP, CSS, JavaScript, JQuery, AJAX, Bootstrap
- **Database:** MS SQL, My SQL
- **Tools:** Test link, Bugzilla, Selenium, FireBug, TFS, Excel Macro, SQL Profiler, Git
- **Operating Systems:** Windows, Linux

LANGUAGES

- English (IELTS Band Score: **6.5**)
- Bangali

SCHOLARSHIP

- DU Pre-Graduation Scholarship (2010)

PERCEIVE STRENGTH

- Ambitious, energetic and self-motivated
- Good organizer and have managing skill with leadership quality
- Dedicated to work and capable of working under challenging environment

REFERENCES

• **Dr. Md. Shariful Islam**
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University of Dhaka.
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• **Dr. Kazi Muheymin-Us-Sakib**
Professor
Institute of Information Technology,
University of Dhaka.
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Email: sakib@iit.du.ac.bd