MD MAIN UDDIN RONY

8125 48th Ave, Apt 204, College Park, MD 20740

☐ (+1) (662)-380-9260 | ✉ mrony@umd.edu | ⌂ therony.me | ⭕ mainuddin-rony | in mainuddinrony

RESEARCH INTEREST

Data Mining, Machine Learning, Natural Language Processing, Computational Journalism, and Social Network Analysis

EXPERIENCES

Teaching Assistant, The University of Maryland, College Park   August 2019 - Present
College of Information Studies

· INST 126 Introduction to Programming for Information Science   Fall 2019

Research Assistant, The University of Mississippi   January 2017 - July 2019
Data Exploration and Research Laboratory

· Built a supervised classification model based on distributed subword embedding technique to identify clickbait content (use of alluring but misleading headline) and analyzed a large corpus of Facebook posts created by 153 media organizations to understand the extent of clickbait practice, its impact and user engagement on the web.
· Developed a clickbait solution framework (*BaitBuster*) consists of a browser extension and social bot which eyes to improve the web surfing experience of general users.
· Explored the posts curated from the Facebook pages of two primary candidates of US Presidential Election, 2016 to conduct a comparative study of their election campaigning and strategies.
· Analyzed thousands of news articles to examine the frequency of uses of social media content as a source in news, processing of content, and social status of cited sources.
· Examined a large corpus of health related news articles to identify the structural, topical, and semantic patterns and leveraged these patterns to built classification models to identify the source (reliable or unreliable) of a health-related news article.
· Investigating a set of social media posts collected from a Facebook group of Bangladeshi Uber users to study various societal, technological, and financial challenges this ridesharing initiative is experiencing.
· Carrying out a comprehensive review of misleading information mining, including its characterization, existing algorithms from a data mining perspective, and representative datasets.

Software Engineer, Infolytx Inc.   June 2015 - December 2016
Data Analytics Team

· Carrying out analysis of the given data, drawing conclusion and developing recommendations, inferences, time series analysis using different Machine learning algorithms and statistical techniques.
· Manipulating data for data visualization and graphical report generation.

Jr. Software Engineer, Nascenia IT   July 2014 - June 2015
Web Development Team

· Consuming different third party provided APIs and payment gateway for providing business solutions.

EDUCATION

PhD Student, Information Studies   August 2019 - Present
The University of Maryland, College Park
Adviser: Dr. Naeemul Hassan

MSc, Engineering Science (emphasis Computer Science)   January 2017 - July 2019
The University of Mississippi, Oxford
CGPA: 3.86/4.00
Thesis: Towards Misleading Connection Mining   *Adviser: Dr. Naeemul Hassan*

BSc, Computer Science and Engineering 2009 - 2014
BUET (Bangladesh University of Engineering and Technology), Dhaka, Bangladesh
Thesis: Study on ATM/POS Switching Software for Banks *Adviser: Dr. Md. Mostofa Akbar*

TECHNICAL SKILLS

- **Programming Languages:** C, C++, Java, Python, R, Ruby, Assembly Language(Intel 8086), LaTeX
- **Web Programming:** Ruby on Rails, Flask, HTML, CSS, JavaScript, jQuery, XML, SOAP, REST, JSON
- **Data Technology:** Scikit-learn, Keras, Matplotlib, Google Cloud Natural Language, Hadoop MapReduce
- **DBMS:** MySQL, Oracle, PostgreSQL, MongoDB(NoSQL)
- **Version Control System:** Git

REFEREED CONFERENCE PAPER

- Sameer Dhoju, **Md Main Uddin Rony**, Muhammad Ashad Kabir, Naeemul Hassan. *Differences in Health News from Reliable and Unreliable Media*. In Proceedings of the 2019 International Workshop on Misinformation, Computational Fact-Checking and Credible Web (Co-located with The Web Conference 2019), San Francisco, CA, USA, May, 2019.
- **Md Main Uddin Rony**, Mohammad Yousuf, Naeemul Hassan. *A Large-scale Study of Social Media Sources in News Articles*. In Proceedings of the 2019 Computation+Journalism Symposium (C+J2019), Florida, USA, February, 2019.
- Md Mahfuzul Haque, Mohammad Yousuf, Zahedur Arman, **Md Main Uddin Rony**, Ahmed Shatil Alam, Kazi Mehedi Hasan, Md Khadimul Islam, Naeemul Hassan. *Fact-checking Initiatives in Bangladesh, India, and Nepal: A Study of User Engagement and Challenges*. In Proceedings of the 2019 Computation+Journalism Symposium (C+J2019), Florida, USA, February, 2019.
- Mohammad Yousuf, Naeemul Hassan, **Md Main Uddin Rony**. *All the Presidents tweets: A Large-scale Study of Uses of Social Media Content in Online News*. In Proceedings of the Association for Education in Journalism and Mass Communication (AEJMC) conference, Washington DC, USA, August, 2018.
- Mohammad Yousuf, Naeemul Hassan, **Md Main Uddin Rony**. *Social Media as Source: A Large-scale Study of Mainstream and Unreliable News Sites*. In Proceedings of the Association for Education in Journalism and Mass Communication (AEJMC) Midwinter conference, Oklahoma, USA, March, 2018.
- Mohammad Yousuf, Naeemul Hassan, **Md Main Uddin Rony**. *Boon or Bane for Political Engagement: A Large-Scale Study of Normalization of Facebook*. In Proceedings of the 68th International Communication Association (ICA) annual conference, Prague, Czech Republic, May, 2018.
- **Md Main Uddin Rony**, Naeemul Hassan, Mohammad Yousuf. *BaitBuster: A Clickbait Identification Framework*. In Proceedings of the 32nd AAAI Conference on Artificial Intelligence (AAAI-18), New orleans, Louisiana, USA, February, 2018.
- **Md Main Uddin Rony**, Naeemul Hassan, Mohammad Yousuf. *BaitBuster: Destined to Save You Some Clicks*. In Proceedings of the 2017 Computation+Journalism Symposium (C+J2017), Illinois, October, 2017.
- **Md Main Uddin Rony**, Naeemul Hassan, Mohammad Yousuf. *Diving Deep into Clickbaits: Who Use Them to What Extents in Which Topics with What Effects?*. In Proceedings of 2017 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM 2017), July, 2017.

PRESENTATIONS

- **Presenter**, Workshop paper titled *Differences in Health News from Reliable and Unreliable Media* May, 2019
MisinfoWorkshop 2019, San Francisco, CA, USA.
- **Presenter**, Poster titled *A Large-scale Study of Social Media Sources in News Articles* February, 2019
Computation+Journalism Symposium (C+J2019), Miami, Florida, USA
- **Presenter**, Poster titled *BaitBuster: Destined to Save You Some Clicks* February, 2018
AAAI Conference on Artificial Intelligence (AAAI-18), New Orleans, Louisiana, USA
- **Presenter**, Poster titled *BaitBuster: Destined to Save You Some Clicks* October, 2017
Computation+Journalism Symposium (C+J2017), Illinois, USA

- **Presenter**, Conference Paper titled *Diving Deep into Clickbaits: Who Use Them to What Extents in Which Topics with What Effects?* July, 2017
  IEEE/ACM Conference on Advances in Social Networks Analysis and Mining, Sydney, Australia
- **Presenter**, Poster titled *We Dived Deep into Clickbaits: You wont Believe what Happened Next!* April, 2017
  University of Mississippi Research Day, University, Mississippi, USA

ACHIEVEMENTS

- **1st Runner Up**, National Hackaton Mobile App Competition organized by ICT Division, Bangladesh 2014
- **2nd Runner Up**, Hardware Project Show in CSE Festival organized By Dept. Of CSE, BUET 2013
- **Government Scholarship (Talent Pool)**, Awarded by Dhaka Education Board, Bangladesh 2008
- **Primary Scholarship (General)**, Awarded by Ministry of Primary and Mass Education, Bangladesh 2000

SYNERGISTIC ACTIVITIES

- **Reviewer,** The Web Conference 2019, CIKM 2018, The Web Conference 2018, JDIQ 2018
- **Webmaster,** Muslim Student Association of The University of Mississippi (2018 - 2019)
- **Member,** Notre Dame College Science Club(2006 - 2008)

REFERENCES

Available upon request