Masum Hasan

3rd year PhD Student, Computer Science, University of Rochester, NY https://masumhasan.net

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Research Interest					
	$(LLM + ML) \cap Game Engines = Conversational AI + Synthetic Data$				
Publications —					
Fublications					
•	SAPIEN: Affective Virtual Agents Powered by Large Language Models. Masum Hasan, Cengiz Ozel, Sammy Potter, Ehsan Hoque, ACIIW 2023 Auto-Gait: Automatic Ataxia Risk Assessment with Computer Vision on Gait Task Videos. Wasifur				
•					
	Rahman, Masum Hasan , Md Saiful Islam, Titilayo Olubajo, Jeet Thaker, Abdelrahman				
	Abdelkader, Phillip Yang, Tetsuo Ashizawa, Ehsan Hoque. UbiComp 2023 CoDesc: A Large Code-Description Parallel Dataset. Masum Hasan , Tanveer Muttaqeen, Ishtiaq				
•	Niloy, Kazi Mehrab, Tahmid Hasan, Mahim Pantho, Wasi Ahmad, Rifat Shahriyar, Anindya Iqbal				
	Venue: ACL Findings 2021				
•	LowResource at BLP-2023 Task 2: Leveraging BanglaBert for Low Resource Sentiment Analysis of				
	Bangla Language Aunabil Chakma, Masum Hasan				
	Venue: EMNLP 2023, BLP Workshop				
•	Industrial Experience Report. Masum Hasan, Anindya Iqbal, Amiangshu Bosu, Mohammad Rafid Ul Islam, A.J.M. Imtiajur Rahman. Venue: EMSE (Journal), Impact Factor: 8.41 Review4Repair: Code Review Aided Automatic Program Repairing. Faria Huq, Masum Hasan, Mahim Pantho, Sazan Mahbub, Anindya Iqbal, Toufique Ahmed. Venue: IST (Journal), Impact Factor: 6.93 Hitting your MARQ: Multimodal ARgument Quality Assessment. Md Kamrul Hasan, James Spann, Masum Hasan Md. Saiful Islam, Kurtis Haut, Rada Mihalcea and Ehsan Hoque. Venue: EMNLP 2021				
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	Madhusudan Basak, M. Sohel Rahman, Rifat Shahriyar.				
	Venue: EMNL				
•	 <u>Text2App: A Framework for Creating Android Apps from Text Descriptions.</u> Masum Hasan, Kazi Sajeed Mehrab, Wasi Uddin Ahmad, Rifat Shahriyar. NLP4Prog, ACL-IJCNLP 2021 <u>Recognition of Bengali Handwritten Digits Using Convolutional Neural Network Architectures.</u> Md Mahmudul Hasan, Md Rafid Ul Islam, Md Tareq Mahmood. 				
•					
Venue: ICBSLP 2018, **Best Student paper award**					
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Amin, Mahmudul Hasan , Kazi Sinthia Kabir, Tanzila Choudhury, ABM Alim Al Islam. Venue: ICCSNT , 2015					
•	115 de la companya del companya de la companya del companya de la				
	Ishtiaq, Masum Hasan, Md. Mahim Anjum Haque, Kazi Sajeed Mehrab, Tanveer Muttaqueen,				
	Tahmid Hasan, Anindya Iqbal, Rifat Shahriyar, ArXiv 2020				
Professional Experience					

Graduate Research Assistant, ROC-HCI lab, University of Rochester, NY

Aug 2021 to Present

- Supervised by **Prof. Ehsan Hoque**
- Artificial Intelligence, Human Computer Interaction, Machine Learning

Cofounder, SAPIEN Coach, LLC, NY

Mar 2023 to Present

• <u>SAPIEN.Coach</u> is an interactive, multilingual, emotionally responsive, virtual-human-based coaching platform for learning academic or soft skills.

TES Remote Research Assistant, Auburn University, AL

Jun 2021 to Aug 2021

- Supervised by Prof. Shubhra (Santu) Karmaker
- Natural Language Processing, Machine Learning.

Research Assistant (RA), Applied Machine Learning Lab, BUET

Nov 2018 to Jun 2021

- Supervised by, Prof. Rifat Shahriyar, Prof. Anindya Iqbal
- ML for source code: Source Code Summarization/Synthesis/Search/Repair/Compression
- NLP for Bengali: Bengali-GPT-2, Bengali-English NMT

Education

PhD Student, Computer Science (CS)

University of Rochester (UofR) ~ Aug 2021 - Present

Master's in Computer Science (CS)

University of Rochester (UofR) ~ Aug 2021 - Aug 2023

Area Paper: Automatic Ataxia Risk Assessment with Computer Vision

BSc. In Computer Science and Engineering (CSE)

Bangladesh University of Engineering and Technology (BUET) ~ Oct 2018

• Thesis: Mythbusting Gender Stereotypes Using Natural Language Processing

Public Speaking

- Radio appearance on WXXI News, "Connections with Evan Dawson" talking about the future of human-AI interactions, December 2023
- Speaker at FlowerCity.AI conference, December 2023
- Speaker on 4-part workshop series on Generative AI, Fall 2023 at University of Rochester.
- Conducted "Introduction to ChatGPT" workshop, Spring 2023 at University of Rochester
- Created an introductory Machine Learning course in Bengali, 2021.

Blogs and Articles

Machine Learning:

- Absolute Beginner's Guide to Machine Learning and Deep Learning
- Setup and Run fast.ai in Amazon AWS

Graduate Admission:

• How I got 4 Ph.D. offers in the US with a CGPA 2.79 — and what you can learn from it

Extracurricular Activities

Audible addict, worst performer at my improv club, in a toxic relationship with my OneWheel, sporadic rock climber, existential dread (not because of AI).