REZAUL **HAQUE**

📞 +8801314996147
✉ rezaulh603@gmail.com
Rezaul Haque
RezaulHaque
Rezaul Haque

Education

East West University	*Sept 2017 - Jan 2022*

B.Sc. in Computer Science and Engineering
- **CGPA:** 3.07 out of 4.00
- **Dissertation:** Multi-class sentiment analysis on Bengali Facebook Comments using NLP, ML and DL approach

Work Experience

BJIT Limited	*Nov 2022 - Feb 2023*
	Dhaka, Bangladesh

Software Engineer – Trainee (iOS)
- Trained on iOS development, AWS Cloud Computing, Scrum, Version Control, Software Design Patterns, Task Management Tools, Soft Skills

Creatrix Soft Tech Ltd	*Feb 2022 – Oct 2022*
Junior Web Developer	*Dhaka, Bangladesh*

- Managed SQL Server Database and developed complex queries
- Reviewed, analyzed, developed, and modified web applications
- Followed best software development practices to ensure high-quality product
- Designed, developed and maintained enterprise-class web applications in ASP.NET technologies (jQuery, AJAX, ASP/HTML, CSS, C#) under Project Manager,

Research Work Experience

Published Papers

1. **R. Haque**, N. Islam, M. Islam, and M. M. Ahsan, "**A Comparative Analysis on Suicidal Ideation Detection Using NLP, Machine, and Deep Learning,**" Technologies 2022, Vol. 10, Page 57, vol. 10, no. 3, p. 57, Apr. 2022, doi: 10.3390/TECHNOLOGIES10030057
2. **R. Haque**, N. Islam, M. Tasneem, and A. K. Das, "**Multi-class sentiment classification on Bengali social media comments using machine learning,**" International Journal of Cognitive Computing in Engineering, vol. 4, pp. 21–35, Jun. 2023, doi: 10.1016/J.IJCCE.2023.01.001
3. **R. Haque,** S. H. Laskar, K. G. Khushbu, M. H. Hasan, J. Uddin, **"Data-driven Solution to Identify Sentiments from Online Drug Reviews**", Computers 2023, Vol. 12, Page 87, vol. 12, no. 4, p. 87, Apr. 2023, doi: 10.3390/COMPUTERS12040087
4. **R. Haque**, M. A. Al Mamun, M. H. Ratul, A. Aziz, and T. Mittra, "**A Machine Learning Based Approach to Analyze Food Reviews from Bengali Text,**" 2022 12th International Conference on Electrical and Computer Engineering (ICECE), pp. 80–83, Dec. 2022, doi: 10.1109/ICECE57408.2022.10088971

Manuscripts Under Review

1. **R. Haque**, N. Islam, S. Rahman, K. G. Khushbu, M. Islam, **"Multi-label Cyberbully Detection System Using Deep Learning Approach"**, International Journal of Information Technology
2. **R. Haque**, M. H. Ratul, S. Rahman, M. S. Laskor, **"Exploring Deep Learning Approaches for Image Captioning to Mimic Human Understanding",** International Conference on Next-Generation Computing, IoT and Machine Learning (NCIM-2023)

Key Projects

Research Projects

- **Crypto Stock Trend Prediction:** Built an algo trading system on crypto currencies that helps traders identify trends and make Buy/Sell decisions
- **Song Lyrics Toxicity Prediction:** Applied ML/DL algorithms to predict whether song lyrics are toxic or not with 94% accuracy
- **Jute Leaf Disease Prediction:** DL-based solution to automatically detect jute disease with 99% accuracy
- **Hybrid Recommendation System:** Built a Hybrid collaborative filtering movie recommender using matrix factorization algorithms (Scikit Surprise, KNN, SVD, etc.)

Mobile Applications

- **Infinite News App (iOS):** Built a real time news application that fetches news using News API and lets the user bookmark news articles of their likeness
  Technology: Xcode, UiKit 14, Swift 5, SQLite, Core Data
- **Rice Weed Detector:** Collected 4,346 rice weed images from Bangladesh and developed an Android application that uses AI to detect 11 distinct class of rice weed leaf with 98% accuracy
  Technology: Android Studio, Python, TensorFlow Lite, TensorFlow

Technical Skills

Specialty	Data Structures & Algorithm, Data Visualization, Semantic Sentiment Analysis, Time Series Analysis, Recommendation Systems, Image Processing, Statistical Analysis, Predictive Analysis
Languages	Python, Swift 5, JavaScript, PHP, C++, HTML, CSS
Technologies	UIKit, NumPy, Scikit-Learn, SciPy, TensorFlow, Pandas, NLTK, BeautifulSoup, Seaborn, OpenCV
Web	Django, Flask, Bootstrap, SQL, NoSQL
Tools	GitHub, LaTex, Redmine, Jira, Xcode, VS code, Anaconda, Jupyter, Colab, Spyder, MATLAB

Research Interest

Biomedical Image Segmentation, Computer Vision, Time-Series Analysis, NLP, Recommendation System, Machine Translation, Generative Adversarial Network

Interpersonal Skills

- Confident, Hard Working and Determined
- Ability to cope up with different situations
- Ability to rapidly build a relationship
- Ability to work under stress and result oriented

Extra-Curricular Activities

- Participated in numerous online data science hackathons | **MachineHack** | **JantaHack** | **Hack4Retail**
- Worked as an Organizer at EWU CSE Programming Club

Certifications

- How Google Does Machine Learning | **Coursera** | *Certificate*
- The Python Programming A-Z Definitive Diploma in 2021 | **Udemy** | *Certificate*
- Google Data Studio A-Z for Data Visualization and Dashboards | **Udemy** | *Certificate*

References

Amit Kumar Das
Ph.D. Student, Department of CSE
Stony Brook University, New York, USA
Email: amit.csedu@gmail.com
Contact: +1(631)5123810

Md Junayed Hasan, PhD
Research Fellow, National Subsea Centre,
Robert Gordon University, Aberdeen AB10 7AQ, UK
Email: j.hasan@rgu.ac.uk
Contact: