Abdul Aziz

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Research Interests

Multimodal NLP, Multilingual and Low-resource NLP, Lexical Semantics, Information Extraction, Large-scale LMs, Natural Language Processing.

Education

B.Sc. (Engg.) in Computer Science and Engineering   2023
University of Chittagong, Chattogram-4331, Bangladesh
CGPA: 3.64/4.0 (3.88 in last 60 credits; 8th out of 61)
Thesis: Multimodal Desire Understanding on Social Media Data
Advisor: Professor Nihad Karim Chowdhury

Research Experience

CSECU-DSG Lab, University of Chittagong, Bangladesh; Advisor: Dr. Abu Nowshed Chy (Undergraduate Research Assistant)
KDE Lab, Toyohashi University of Technology, Japan; Advisor: Dr. Masaki Aono (Research collaboration)
Zia Ullah's Lab, Edinburgh Napier University, UK; Advisor: Dr. Md Zia Ullah (Research collaboration)

Research Publications

International Journals:

1. **Abdul Aziz**, Nihad Karim Chowdhury, Muhammad Ashad Kabir, Abu Nowshed Chy, and Md. Jawad Siddique, *MMTF-DES: A Fusion of Multimodal Transformer Models for Desire, Emotion, and Sentiment Analysis of Social Media Data*, Elsevier Information Fusion Journal, 2023. (On Review) (Arxiv PDF)

2. **Abdul Aziz***, Md. Akram Hossain*, Abu Nowshed Chy, Md Zia Ullah, and Masaki Aono, *Leveraging Contextual Representations with BiLSTM-based Regressor for Lexical Complexity Prediction*, Elsevier Natural Language Processing Journal, 2023. (Accepted) (* equal contributions)

Conference and Workshop Papers

1. **Abdul Aziz** et al. *Multimodal Complaint Detection Using Sentiment and Emotion-Aided Multitask Contrastive Learning Model*, ECIR-2024. (Submitted)

2. **Abdul Aziz** et al. *Sentiment and Emotion Analysis Using Transformer-based Multi-task Contrastive Learning Model on Code-mixed Tweets*, ECIR-2024. (Submitted)

3. Nabila Ayman, **Abdul Aziz** et al. *BengaliLCP: A Dataset for Lexical Complexity Prediction in the Bengali Texts*, LREC-COLLING-2024. (Submitted)

4. Md. Akram Hossain, **Abdul Aziz** et al. *BiGCAT: An Integrated Graph Neural Network Model for Financial Named Entity Recognition*, ECIR-2024. (Submitted)

5. **Abdul Aziz** et al. *CSECU-DSG@ Multimodal Hate Speech Event Detection 2023: Transformer-based Multimodal Hierarchical Fusion Model For Multimodal Hate Speech Detection*, CASE@RANLP-2023. (Accepted)

6. Md. Akram Hossain, **Abdul Aziz** et al. *CSECU-DSG@ Causal News Corpus 2023: Leveraging RoBERTa and DeBERTa Transformer Model with Contrastive Learning for Causal Event Classification*, CASE@RANLP-2023. (Accepted)

7. **Abdul Aziz** et al. *CSECU-DSG at CheckThat! 2023: Transformer-based Fusion Approach for Multimodal and Multigenre Check-Worthiness*, CLEF-2023. [**1st place**] (PDF)

8. **Abdul Aziz** et al. *CSECU-DSG at SemEval-2023 Task 4: Fine-tuning DeBERTa Transformer Model with Cross-fold Training and Multi-sample Dropout for Human Values Identification*, SemEval-2023. (PDF)

9. **Abdul Aziz** et al. *CSECU-DSG@ Causal News Corpus 2022: Fusion of RoBERTa Transformers Variants for Causal Event Classification*, CASE@EMNLP-2022. [**1st place**] (PDF)

10. **Abdul Aziz** et al. *Enhancing the DeBERTa Transformers Model for Classifying Sentences from Biomedical Abstracts*, ALTA-2022. [**2nd place**] (PDF)

11. **Abdul Aziz** et al. *CSECU-DSG at SemEval-2022 Task 3: Investigating the Taxonomic Relationship Between Two Arguments using Fusion of Multilingual Transformer Models*, SemEval-2022. [**4th place**] (PDF)

12. **Abdul Aziz** et al. *CSECU-DSG at SemEval-2022 Task 11: Identifying the Multilingual Complex Named Entity in Text Using Stacked Embeddings and Transformer based Approach*, SemEval-2022. (PDF)

13. **Abdul Aziz** et al. *CSECU-DSG at SemEval-2021 Task 1: Fusion of Transformer Models for Lexical Complexity Prediction*, SemEval-2021. (PDF)

14. **Abdul Aziz** et al. *Feature Fusion with Hand-crafted and Transfer Learning Embeddings for Cause-Effect Relation Extraction*, CEREX@FIRE-2020. [**1st place**] (PDF)

Selected Research Projects	**Mutilingual and Code-mixed Task Understanding** [December 2021 - Present] - Code-mixed Sentiment and Emotion Analysis [ECIR '24] (In-progress) - Multilingual Taxonomic Relationship of Arguments [SemEval '22] - Multilingual and Code-mixed Complex NER [SemEval '22] **Multimodal NLP for Social Good** [January 2022 - Present] - Multimodal Complaint Detection [ECIR '24] (Submitted) - Multimodal Desire Understanding [Information Fusion Journal '23] (On Review) - Multimodal Hate Speech Detection [CASE@RANLP '23] - Multimodal and Multigenre Check-Worthiness [CheckThat!@CLEF '23] **Lexical Simplification** [December 2020 - Present] - Multilingual Lexical complexity Prediction [LREC-COLING '24] (In-progress) - Lexical Complexity Prediction [NLP Journal '23 (On Review), SemEval '21] **Causal Information Extraction** [June 2020 - August 2023] - Event Causality Identification [CASE@RANLP '23, CASE@EMNLP '22] - Cause-Effect Relation Extraction [CEREX@FIRE '20]
Extra Curricular Activities	**Student Volunteer (Virtual)** - The 61st Annual Meeting of the ACL (ACL 2023) - The 44th International ACM SIGIR Conference (SIGIR 2021) **Reviewer** - SemEval, CLEF, AACL-IJCNLP (Sub-reviewer)