

Ashraful Islam Paran

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EDUCATION

- Chittagong University of Engineering and Technology (CUET)** Feb 2020 - Present
B.Sc. in Computer Science and Engineering
Chittagong, Bangladesh
 - CGPA: 3.94/4.00
 - Class Position: 3/132 (Top 2.5%)
 - Thesis: Detecting Abusive Language in Bengali using Multimodal Fusion
 - CourseWork: Object Oriented Programming, Data Structures, Applied Statistics, Algorithms Design and Analysis, Operating Systems, Software Engineering, Artificial intelligence, Machine Learning, Big Data

PROGRAMMING / TECHNICAL SKILLS

- Proficient:** Python, Javascript, C, C++, HTML, CSS, SQL, NoSQL
- Vector DB:** FAISS
- Frameworks:** Keras, TensorFlow, Pytorch, Scikit-learn, Pandas, Langchain, OpenAI API
- Devops:** Docker, Vagrant
- Tools:** Jupyter, Git, LaTeX, VS Code, Hugging Face

COMPETITIVE PROGRAMMING

Solved more than 1200 problems in various online judges. Competed in the ICPC Asia Dhaka Regional Onsite Contest, ICPC Asia Dhaka Regional Preliminary Contest, and various IUPCs.

- Codeforces:** Handle: [ashrafulparan.](#), Max Rating: **1416 (Specialist)**, Solve Count: **750+**
- AtCoder:** Handle: [ashrafulparan](#), Max Rating: **510 (8-Kyu)**, Solve Count: **150+**

RESEARCH INTERESTS

- Natural Language Processing, Large Language Models, Multimodal Analysis, Multimodal LLMs**

PUBLICATIONS

C=CONFERENCE, J=JOURNAL, P=PATENT, S=IN SUBMISSION, T=THESIS

- [C.7] Ashraful Islam Paran, Md. Sajjad Hossain, Symom Hossain Shohan, Jawad Hossain, Shawly Ahsan, and Mohammed Moshuiul Hoque. 2024. **Leveraging Large Language Models to Estimate the Check-Worthiness of Multilingual Tweets.** In *27th International Conference on Computer and Information Technology (ICCIT) 20-22 December 2024, Cox's Bazar, Bangladesh*
- [C.6] Hossain, M. S., Shohan, S. H., Paran, A. I., Hossain, J., & Hoque, M. M. (2025, May). **SemanticCuetSync@ DravidianLangTech 2025: Multimodal Fusion for Hate Speech Detection-A Transformer Based Approach with Cross-Modal Attention.** In *Proceedings of the Fifth Workshop on Speech, Vision, and Language Technologies for Dravidian Languages* (pp. 489-495).
- [C.5] Paran, A. I., Hossain, M. S., Shohan, S. H., Hossain, J., Ahsan, S., & Hoque, M. M. (2024). **SemanticCuetSync at CheckThat! 2024: Finding subjectivity in news article using Llama.** In *Working Notes of the Conference and Labs of the Evaluation Forum (CLEF 2024)*, pages 387-395, Grenoble, France.
- [C.4] Shohan, S. H., Hossain, M. S., Paran, A. I., Hossain, J., Ahsan, S., & Hoque, M. M. (2024). **SemanticCuetSync at CheckThat! 2024: Pre-trained Transformer-based Approach to Detect Check-Worthy Tweets.** In *Working Notes of the Conference and Labs of the Evaluation Forum (CLEF 2024)*, pages 387-395, Grenoble, France.
- [C.3] Symom Shohan, Md. Hossain, Ashraful Paran, Shawly Ahsan, Jawad Hossain, and Mohammed Moshuiul Hoque. 2024. **SemanticCuetSync at AraIEval Shared Task: Detecting Propagandistic Spans with Persuasion Techniques Identification using Pre-trained Transformers.** In *Proceedings of The Second Arabic Natural Language Processing Conference*, pages 518-523, Bangkok, Thailand. Association for Computational Linguistics.
- [C.2] Ashraful Paran, Symom Shohan, Md. Hossain, Jawad Hossain, Shawly Ahsan, and Mohammed Moshuiul Hoque. 2024. **SemanticCuetSync at AraFinNLP2024: Classification of Cross-Dialect Intent in the Banking Domain using Transformers.** In *Proceedings of The Second Arabic Natural Language Processing Conference*, pages 422-427, Bangkok, Thailand. Association for Computational Linguistics.
- [C.1] Md. Sajjad Hossain, Ashraful Islam Paran, Symom Hossain Shohan, Jawad Hossain, and Mohammed Moshuiul Hoque. 2024. **SemanticCUETSync at SemEval-2024 Task 1: Finetuning Sentence Transformer to Find Semantic Textual Relatedness.** In *Proceedings of the 18th International Workshop on Semantic Evaluation (SemEval-2024)*, pages 1222-1228, Mexico City, Mexico. Association for Computational Linguistics.
- [S.1] Paran, Ashraful Islam, et al. **Zero_Shot at SemEval-2025 Task 11: Fine-Tuning Deep Learning and Transformer-based Models for Emotion Detection in Multi-label Classification, Intensity Estimation, and Cross-lingual Adaptation.** In *Proceedings of the 19th International Workshop on Semantic Evaluation (SemEval-2025)*, Association for Computational Linguistics, July 2025, Vienna, Austria.

ACADEMIC SERVICE

- **Reviewer:** ACL Rolling Review (Feb & May 2025), NAACL 2025, SemEval 2024–2025, CLEF 2024
- **Volunteer:** NAACL 2025 – Supported virtual sessions and platform integrity

OPEN SOURCE CONTRIBUTION

- **VLMRun-Hub** *Tools: [Python, Pydantic, Git, GitHub, VLM Run API, Jupyter Notebook]*
Mar 2025 – May 2025
 - Contributed Work Order Requests Schema ([PR #131](#))
 - Contributed Legal Claim Schema ([PR #134](#))

PROJECTS

- **Chat with PDF** *Tools: [Streamlit, Python, PyPDF2, Hugging Face Transformers, LangChain, FAISS, OpenAI API]*
 - Developed a Retrieval-Augmented Generation (RAG) system to enable interactive Q&A with PDF documents.
 - Integrated Streamlit to create a user-friendly web interface for uploading PDFs and querying content.
 - Optimized retrieval and generation processes to improve response accuracy and speed.
- **Caption Generator** *Tools: [Python, Hugging Face Transformers, PyTorch, Pillow, NumPy, Git]*
 - Designed a streamlined pipeline for processing images and generating captions efficiently.
 - Implemented and tested various pre-processing and post-processing techniques to enhance caption quality.
- **Movie Recommender** *Tools: [Streamlit, Python, Surprise, Scikit-learn, Pandas, NumPy, Git]*
 - Implemented collaborative filtering and content-based filtering algorithms to suggest movies based on user preferences
 - Integrated interactive features such as user input forms and dynamic recommendation updates.

HONORS AND AWARDS

- 2025 **3rd Place**, Multimodal Hate Speech Detection: DravidianLangTech@NAACL 2025 *New Mexico*
- 2025 **6th Place**, SemEval1-2025 Task 11 *New Mexico*
- 2024-25 **Top 15 Finalist x2**, Honda YES Award *Japan*
- 2024 **4th Place**, CLEF 2024 - CheckThat! Lab Task 2 *Grenoble, France*
- 2024 **5th Place**, CLEF 2024 - CheckThat! Lab Task 1 *Grenoble, France*
- 2024 **5th Place**, AraFinNLP SharedTask 2024 (Subtask 1 - Multi-dialect Intent Detection) *Bangkok, Thailand*
- 2024 **6th Place**, ArAIEval: Propagandistic Techniques Detection *Bangkok, Thailand*
- 2024 **11th Place**, SemEval-2024 Task 1 *Mexico City, Mexico*
- 2024 **5th Place**, IUT ICT Fest 2024 Datathon: ASR for Regional Dialects *Dhaka, Bangladesh*
- 2022 **19th Place**, Code Samurai Hackathon 2022 *Dhaka, Bangladesh*
- 2023 **99th Place**, ICPC Asia Dhaka Regional Onsite Contest *Dhaka, Bangladesh*
- 2020-23 **Honorable Mention x3**, ICPC Asia Dhaka Regional Preliminary Contest *Dhaka, Bangladesh*
- 2020-24 **Technical Scholarship x7**, Academic excellence *Chittagong, Bangladesh*
- 2019 **Gold Honour**, International Youth Math Challenge (IYMC)

EXTRA-CURRICULAR ACTIVITIES

- **Assistant IT Secretary, CUET Computer Club** *2020 - Present*
Chittagong, Bangladesh
 - Held several workshops and classes on competitive programming
 - Organized several programming competitions
- **Assistant General Secretary, Josephite Math Club** *2017 - 2019*
Dhaka, Bangladesh
 - Held several workshops on mathematics.
 - Organized Josephite Math Festival 2018 and BDMO (Bangladesh Math Olympiad) preliminary round.

CERTIFICATIONS

- **Cryptography I** *Feb 2025*
Stanford University
- **Deep Learning Specialization** *Apr 2024*
DeepLearning.AI
- **Machine Learning Specialization** *Nov 2023*
DeepLearning.AI