

Jahedul Alam Junaed

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Education

B.Sc, Computer Science and Engineering

Feb 2018 - Feb 2023

Shahjalal University of Science and Technology • Sylhet, Bangladesh • CGPA - 3.71 / 4.00

Research Experience & Publications

- **NumDecoders at SemEval-2024 Task 7: FlanT5 and GPT enhanced with CoT for Numerical Reasoning** [\[paper link\]](#)
 - Presented a Chain-of-Thought enhanced solution for large language models including FlanT5 and GPT 3.5 Turbo aimed at solving mathematical problems
 - Developed a data augmentation strategy incorporating additional mathematical reasoning from an external corpus, using both automatic and manual annotations to enhance model reasoning capabilities
- **Data, Annotation, and Meaning-Making: The Politics of Categorization in Annotating a Dataset of Faith-based Communal Violence** [\[paper link\]](#)
 - Analyzed the marginalization of faith-based, religious, and spiritual (FRS) perspectives in data annotation
 - Highlighted the ethical implications of data annotation, emphasizing the need for greater inclusion of faith-based, religious, and spiritual (FRS) aspects in the annotation process
- **Vio-Lens: A Novel Dataset of Annotated Social Network Posts Leading to Different Forms of Communal Violence and its Evaluation** [\[paper link\]](#)
 - Proposed a novel framework for annotating online violence-inciting comments in Bangla
 - Categorized violence-inciting comments using a Guided-LDA with Human in the Loop approach and identified key terms for each category
 - Created a novel dataset of 6046 annotated social media comments and provided benchmark evaluation of the dataset
- **BLP-2023 Task 1: Violence Inciting Text Detection (VITD)** [\[paper link\]](#)
 - Presented the comprehensive technical description of the outcome of the VITD shared task
 - 27 teams consisting of 88 participants participated in this shared task
- **garNER at SemEval-2023: Simplified Knowledge Augmentation for Multilingual Complex Named Entity Recognition** [\[paper link\]](#)
 - Proposed a knowledge augmentation approach by directly extracting information from Wikipedia API and adding it to input sentences
 - Applied ensemble methods across multiple models to get the final prediction

Industry Experience

Associate Software Engineer at Orbitax Bangladesh Limited

March 2023 - Present

- Implemented Orbitax's support ticket creation feature, empowering clients to report and address issues encountered while utilizing Orbitax's tools which is now actively used by all of the clients of Orbitax
- Designed and implemented a timer component, effectively resolving multiple bugs and significantly reducing redundant code writing efforts for other developers
- Working on developing a video meeting feature for Orbitax meetings which will be used for all of the internal and client meetings of Orbitax

Competitive Programming & Mentorship Experience

- Learned various core and advanced algorithms and data structures on graphs, trees, string, number theory, and dynamic programming
- Solved **1800+** problems in various online judges including CodeForces, CodeChef, Vjudge, LightOJ, UVA, etc.
- Participated in some national contests and several online contests
- Codeforces - achieved a maximum rating of 1573 [Username: [NowshadJunaed](#)]
- CodeChef - achieved a maximum rating of 1731 [Username: [nowshad_junaed](#)]
- Mentored **20+** freshman students to teach different algorithms, data structures, and programming

Honors & Awards

- Organizer of VTTD shared task (Task 1) endorsed by [BLP Workshop @ EMNLP 2023](#)
- Ranked **5th** in SemEval 2024: Numeral-Aware Headline Generation
- Top **10** in 10 language tracks, SemEval 2023: Multilingual Complex Named Entity Recognition

Projects

Shopaholic [[Github](#)]

- Developed an E-Commerce site with Node.js and React, integrating three APIs: E-Commerce, Bank, and Supplier APIs.
- Implemented a transaction flow where users make payments, the E-Commerce pays the supplier, and the supplier delivers products to the shipping address.

Brevity [[Github](#)]

- Built a blog site for experience and resource sharing using the Flask framework.
- Enabled a platform for experts to share experiences and for beginners to seek guidance and resources.

Dynamic Programming Simulator (DP simulator) [[Github](#)]

- Developed a visualizer for simulating DP problems using JavaFX.
- This project can simulate six different types of dynamic programming-based problems e.g., 0-1Knapsack, Coin Change, Longest Increasing Subsequence, Longest Common Subsequence, Matrix Chain Multiplication, and Edit Distance.

Skills

- **Programming Languages:** C, C++, Java, Python, C#
- **Web Frameworks/Tools:** ASP.NET Core, Angular, Flask
- **Databases:** MySQL, MongoDB
- **Others:** Machine Learning, Problem Solving, Data Structure, Algorithm, Object-Oriented Programming

References

Dr. Ruhul Amin
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