Jahedul Alam Junaed

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nowshadjunaed Nowshadjunaed Google-Scholar-Profile Personal-Website

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 VITD 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 Structures, Algorithm, Object-Oriented Programming

References

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