Shuhaib Mehri
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https://shuhaibm.github.io

EDUCATION

B.Sc. Honours Computer Science, September 2019 - Present
University of British Columbia

- 90% major average
- Selected coursework:
  - Advanced Machine Learning, Natural Language Processing, Discourse in NLP, Computer Vision, Intelligent, Systems, Advanced Algorithm Design and Analysis, Distributed Systems, Advanced Software Engineering, Advanced Relational Databases

PUBLICATIONS

Shuhaib Mehri, Vered Shwartz. *Automatic Evaluation of Generative Models with Instruction Tuning*. EMNLP 2023.

RESEARCH EXPERIENCE

Modeling Discourse Relations August 2023 - Present
Natural Language Processing Group, UBC
Supervisors: Prof. Giuseppe Carenini and Dr. Chuyuan Li

- Currently working under the supervision of Prof. Giuseppe Carenini on modeling discourse relations in dialog.
- Exploit question-answer generation-based linguistic frameworks to annotate pre-existing datasets and aid in identifying relations.
- Initial experimental results show accuracy that is comparable to state-of-the-art approaches.

Evaluation of Natural Language Generation August 2022 - September 2023
Natural Language Processing Group, UBC
Supervisor: Prof. Vered Shwartz

- Completed my honours thesis with Prof. Vered Shwartz on the automatic evaluation of generative tasks.
- Developed a novel dataset, HEAP, designed to study the evaluation of 8 generative tasks such as advice generation, commonsense reasoning, and question generation. It consists of 22 diverse human evaluation criterias set up in a uniform comparative format.
- Instruction tuned LLMs on HEAP to establish a learned metric. Our findings demonstrate that the LLMs performed well on many evaluation tasks, and jointly training on multiple tasks results in additional performance improvements.
- First author publication accepted to EMNLP 2023

INDUSTRY EXPERIENCE

Natural Language Processing Intern December 2023 -
iClinic Systems Inc.
Supervisor: Prof. Vered Shwartz

- As a part of the Mitacs Accelerate program, I will be working on information extraction in a clinical system with the objective of building a custom NLP pipeline

Software Development Engineer Intern January 2023 - August 2023
Amazon

- Worked on the Gurupa Team, the team responsible for Amazon's core page assembly engine.
- Owned the end-to-end creation of an interactive data visualization tool responsible for a 90% increase in efficiency of data analysis, which streamlined the migration from a page rendering framework.
- Employed various techniques to optimize the data retrieval process, achieving an 80% reduction in website latency.
- Spearheaded productionalization by configuring pipelines and environments and establishing a robust support policy, which resulted in a fully operation web application deployed to production.

Software Development Engineer Intern May 2022 - August 2022
Amazon

- Worked on Amazon's Dram Team, the team responsible for the primary HTTP interface or rendering content.
- Architected the design and development of a command line tool that uses cloud computing to generate and register consumer ready metadata, enabling developers to create/manage Amazon web pages.
- Collaborated with different teams to fully integrate the command line tool, ultimately automating a process that previously required manual code changes and reducing team operation load by 30%.

Software Development Engineer Intern September 2021 - December 2021
Clir Renewables

- Built and deployed a management software solution, effectively maintaining a portfolio of 1000+ renewable energy assets.
- Enhanced code functionality, efficiency, and user experience by introducing new features, writing tests, and integrating changes to the internal tool portal, data access, user authentication, and notification services.

TEACHING

Teaching Assistant September 2020 - Present
University of British Columbia

- Led programming labs, office hours, review sessions, and graded student work for principle computer science courses consisting of over 300 students

  Introduction to Software Engineering (CPSC 310)

  Models of Computation (CPSC 121)