DREW GALBRAITH

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Professional Summary

I train language models for specified use cases and investigate new lines of research especially pertaining to RAG and transformer-alternative architectures. I am open to other research directions as well where I can utilize my deep learning skill set and experience.

Education

PhD, Computer Science, 2024 - 2028 – Brigham Young University
- Investigating LLM biases, capacities, and limitations.

BA, Linguistic Computing, April 2024 – Brigham Young University
- 3.7 GPA

Work History

Research Intern Team Lead, May 2024 - Aug. 2024

Applied Research Lab for Intelligence and Security
- Lead a small team in proof-of-concept design and implementation of an end-to-end LM product including automated evaluation.
- Quickly learned 3 SOTA softwares to deploy the best pipeline for client needs.
- Contributed Ollama compatibility to an open-source LM evaluation library.
- Selected as 1 of 7 teams to present in the program-wide final assembly out of 47 teams for outstanding project performance during internship.

Graduate/Undergraduate Researcher, Dec. 2022 - Current

BYU DRAGN Labs
- Elaborated on transformer-alternative architectures for model distillation as part of a student research team.
- Taught 20 undergraduate students language modelling concepts over 3-month course.
- Pretrained several 1-3 billion parameter language models on remote, multi-GPU machines.

Published Works

- Geographic Influences on English Demonyms, *IMM21 poster*