

Call for Master\PhD Students for Participating in Thesis Research

The research objectives are:

1. Overcoming the limitations of large language models (LLMs) such as memory, latency, context size and more.
2. Developing a deep understanding of deep learning architectures using causal inference tools.

More Details:

Overcoming LLMs Limitations:

LLMs are a type of deep learning foundational models that can generate text, translate languages, write different kinds of creative content, and answer your questions in an informative way. However, LLMs have many limitations, such as:

- i. Memory: LLMs require a lot of memory to store the parameters of the model. This can be a problem for devices with limited memory, such as mobile phones.
- ii. Latency: LLMs can be slow to generate text or translate languages. This can be a problem for applications that require real-time responses, such as chatbots.
- iii. Context size: LLMs can only process a limited amount of context at a time. This can make it difficult for them to understand the meaning of long sentences or paragraphs.

Causal inference for Deep Learning Understanding:

Causal inference is a methodology that allows us to understand the relationship between cause and effect. This can be useful for understanding the relationship between data, architecture, and label in deep learning. For example, causal inference can be used to identify the features of data that are most important for predicting a label. This can help us to design better deep learning architectures.

To participate in this research you should have:

- Strong programming skills in Python.
- Experience in machine learning and deep learning.
- Research skills.

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