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Week 1 resources

Below you'll find links to the research papers discussed in this weeks videos. You don't need to understand all the technical details discussed in these papers - you have already seen the most important points you'll need to answer the quizzes in the lecture videos.

However, if you'd like to take a closer look at the original research, you can read the papers and articles via the links below.

Generative AI Lifecycle

• <u>Generative AI on AWS: Building Context-Aware, Multimodal Reasoning Applications</u> '- This O'Reilly book dives deep into all phases of the generative AI lifecycle including model selection, fine-tuning, adapting, evaluation, deployment, and runtime optimizations.

Transformer Architecture

- **BLOOM: BigScience 176B Model** □ BLOOM is a open-source LLM with 176B parameters trained in an open and transparent way. In this paper, the authors present a detailed discussion of the dataset and process used to train the model. You can also see a high-level overview of the model here □.
- <u>Vector Space Models</u> ☐ Series of lessons from DeepLearning.Al's Natural Language Processing specialization discussing the basics of vector space models and their use in language modeling.

Pre-training and scaling laws

• <u>Scaling Laws for Neural Language Models</u> ☐ - empirical study by researchers at OpenAI exploring the scaling laws for large language models.