

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

Transformer Architecture

- **Attention is All You Need** ☐ This paper introduced the Transformer architecture, with the core "self-attention" mechanism. This article was the foundation for LLMs.
- **Vector Space Models** ☑ Series of lessons from DeepLearning.AI's Natural Language Processing specialization discussing the basics of vector space models and their use in language modeling.

Pre-training and scaling laws

Model architectures and pre-training objectives

- What Language Model Architecture and Pretraining Objective Work Best for Zero-Shot Generalization?
 - The paper examines modeling choices in large pre-trained language models and identifies the optimal approach for zero-shot generalization.

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