

Diary Entry - Week 17

Date: 04-11-2024 to 08-11-2024

Summary:

Week 17 focused on the transformer architecture, text generation, and an introduction to recommender systems.

Transformer Architecture and Text Generation:

- Explored the transformer architecture, a revolutionary deep learning model designed for handling sequential data without recurrence.
- Investigated the key components of transformers, including self-attention mechanisms and positional encodings, understanding their role in capturing contextual information efficiently.
- Discussed text generation tasks using transformers, such as language modeling and sequence-to-sequence generation, understanding their applications in natural language processing tasks.

Introduction to Recommender Systems:

- Introduced recommender systems as algorithms designed to recommend items to users based on their preferences and past interactions.
- Explored different types of recommender systems, including collaborative filtering, content-based filtering, and hybrid approaches, understanding their strengths and limitations in various recommendation scenarios.