Mindluster Platform

About the course Transformers in deep learning

Course Presenter : Learn With Jay

Transformers in deep learning, in this course we will learn about the powerful Transformer architecture that revolutionized natural language processing and computer vision. Weâ€™ll begin with the fundamentals of self-attentionâ€”the core concept that enables models to weigh relationships between different input tokens. Then, we'll explore the structure of Transformer blocks, including encoders, decoders, positional encoding, and multi-head attention. Youâ€™ll gain hands-on experience implementing Transformers using frameworks like PyTorch or TensorFlow. The course also covers advanced topics such as fine-tuning pretrained models (like BERT or GPT), training on large datasets, and applying Transformers to tasks like machine translation, text classification, and image recognition. Whether you're aiming to build state-of-the-art AI applications or simply understand the tech behind modern models, this course provides a solid foundation in Transformers and their real-world use cases. Learn With Jay

Computer Science Category's Courses

Course Lesson(11)

Lesson 1 : **Transformers in Deep Learning Introduction to Transformers**

Lesson 2 : **Self Attention in Transformers Transformers in Deep Learning**

Lesson 3 : **Linear Transformation in Self Attention Transformers in Deep Learning Part 3**

Lesson 4 : **Why the name Query Key and Value Self Attention in Transformers Part 4**

Lesson 5 :
Why Scaling by the Square Root of Dimensions Matters in Attention Transformers in Deep Learning

Lesson 6 : **Master Multi headed attention in Transformers Part 6**

Lesson 7 : **Positional Encoding in Transformers Deep Learning**

Lesson 8 : **Simplest explanation of Layer Normalization in Transformers**

Lesson 9 : **How Residual Connections in Transformers stabilize its training**

Lesson 10 : **Encoder Architecture in Transformers Step by Step Guide**

Lesson 11 : **Decoder Architecture in Transformers Step by Step from Scratch**

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