

## **12 Questions for the PDF (Fully Relevant & Accurate)**

- 1. What is a Transformer model in NLP?**
- 2. How does the self-attention mechanism work?**
- 3. What advantages do Transformers have over RNNs and LSTMs?**
- 4. What are word embeddings and why are they important?**
- 5. What is the difference between traditional ML and deep learning in NLP?**
- 6. What are positional encodings and what problem do they solve?**
- 7. Why are Large Language Models considered powerful in modern NLP?**
- 8. What are some practical applications of LLMs?**
- 9. What challenges are associated with training large Transformer models?**
- 10. What is tokenization in NLP and why is it needed?**
- 11. How do attention weights help in interpretability?**
- 12. What does “scalability” mean in the context of Transformer-based LLMs?**