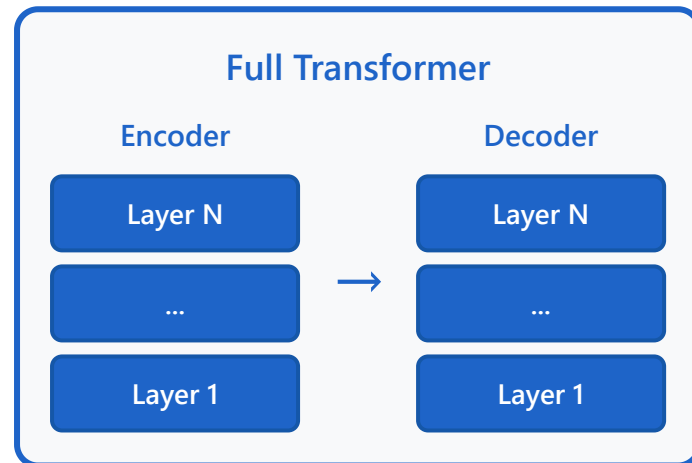# T5: Text-to-Text Transfer Transformer

Google - Unified Framework for All NLP Tasks

Full Transformer

Encoder	Decoder
Layer N	Layer N
...	...
Layer 1	Layer 1

📚 Pre-training
C4 corpus (750GB)
Span corruption objective

📏 Scalability
T5-Base → T5-11B
Multiple model sizes

🎯 Performance
Strong results across diverse NLP tasks

🔄 All Tasks → Text Generation

🌐 **translate English to German:**
That is good.
→ **Das ist gut.**

📝 **summarize:**
Long article text...
→ **Brief summary**

😊 **sentiment:**
I love this movie!
→ **positive**

❓ **question answering:**
What is the capital?
→ **Paris**

📊 **Model Sizes:**
T5-Small T5-Base T5-Large T5-3B
T5-11B