

COMPONENTS OF LLM

UPDATED 2024

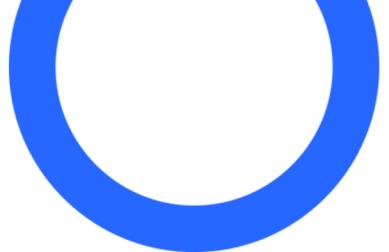
Swipe to know >>>



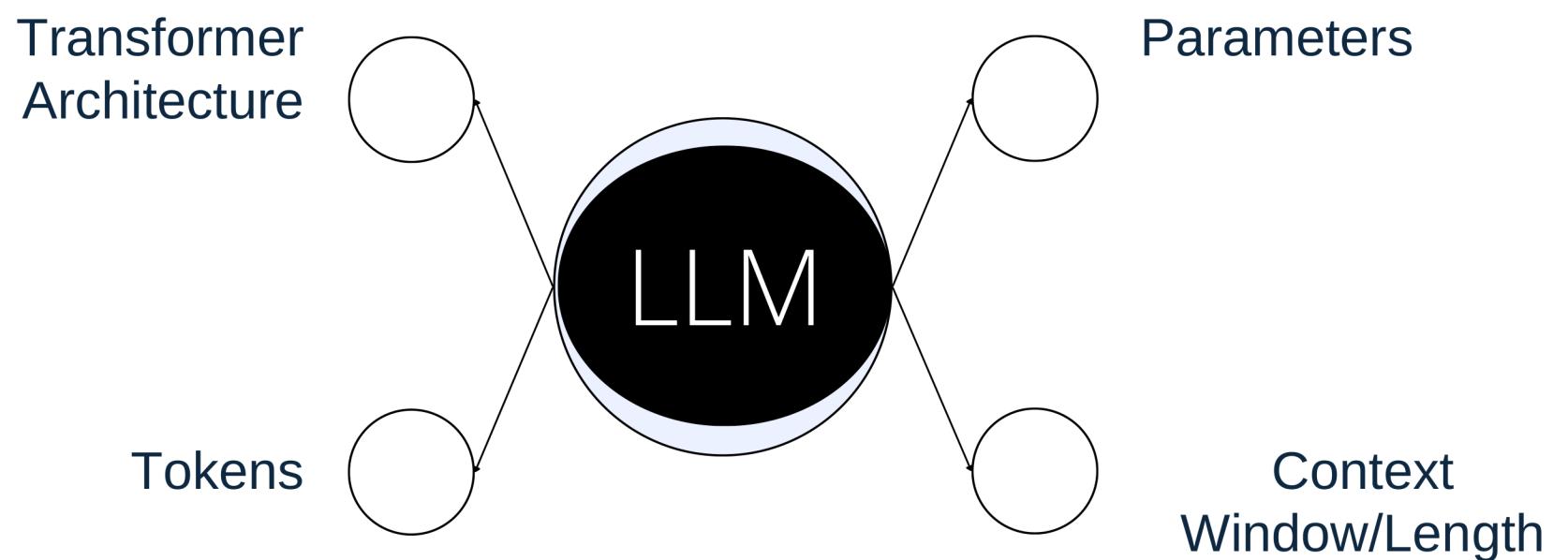
NAS.IO/ARTIFICIALINTELLIGENCE



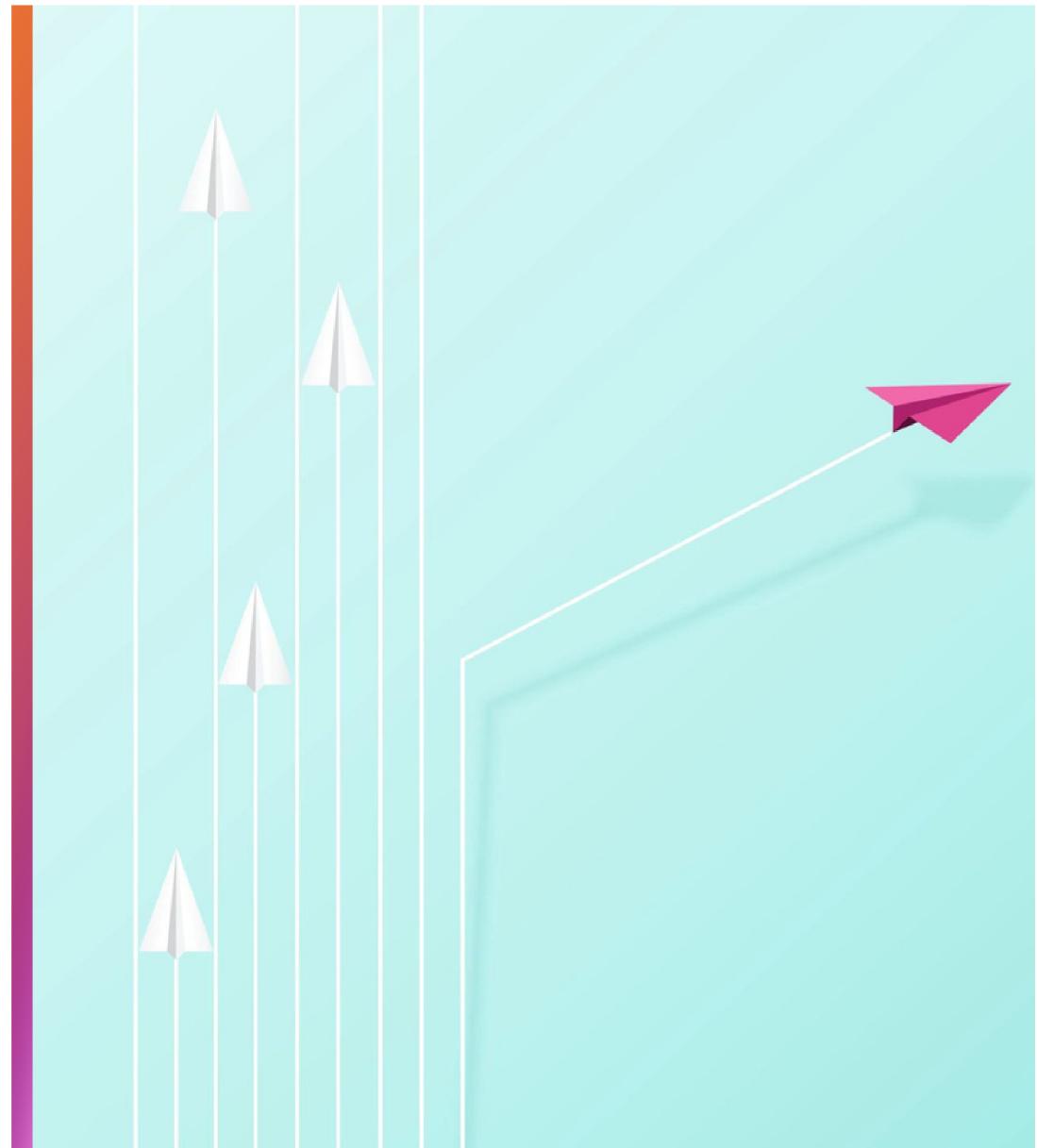
DECODING
DATA SCIENCE



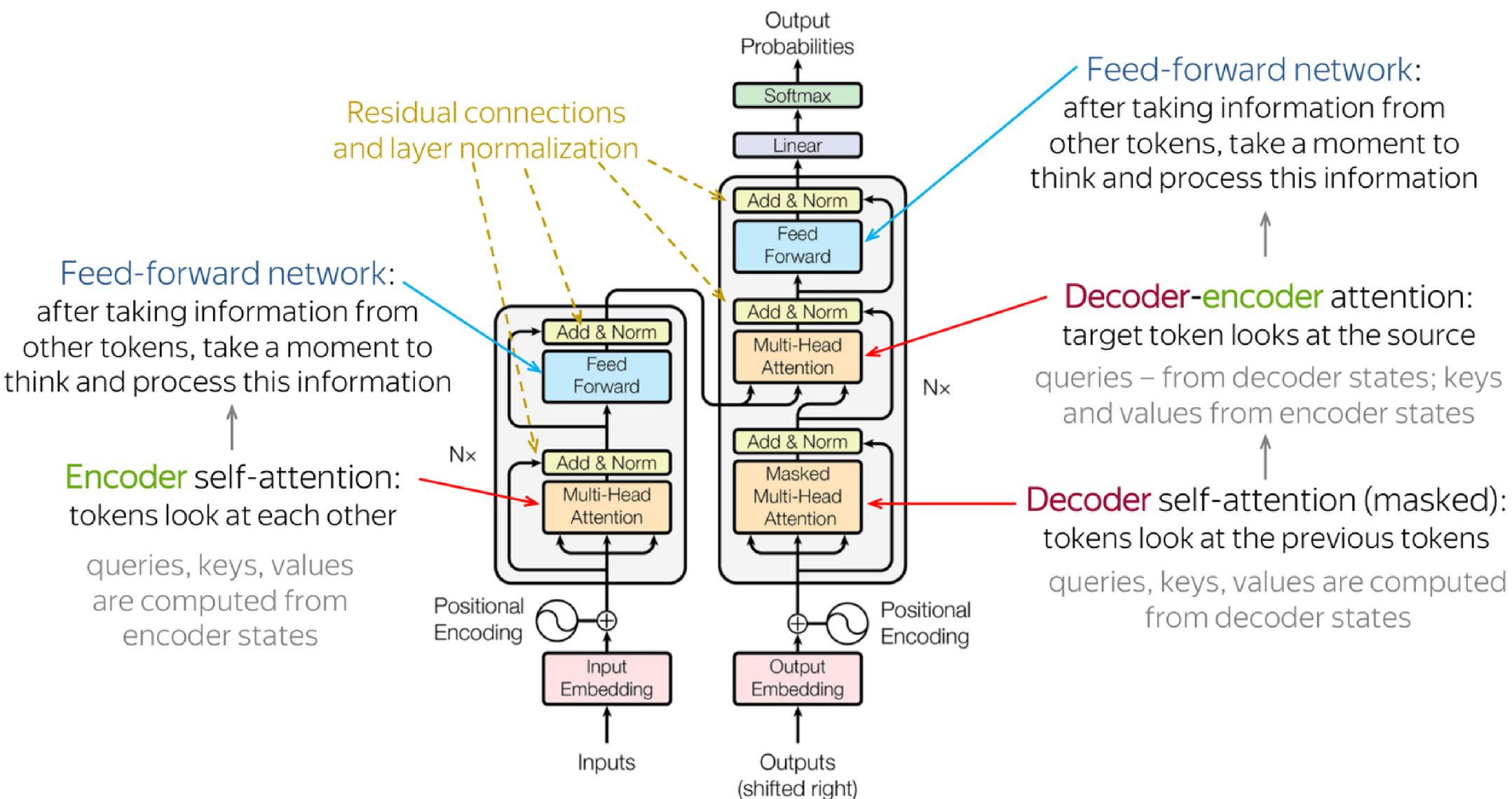
Components of LLM



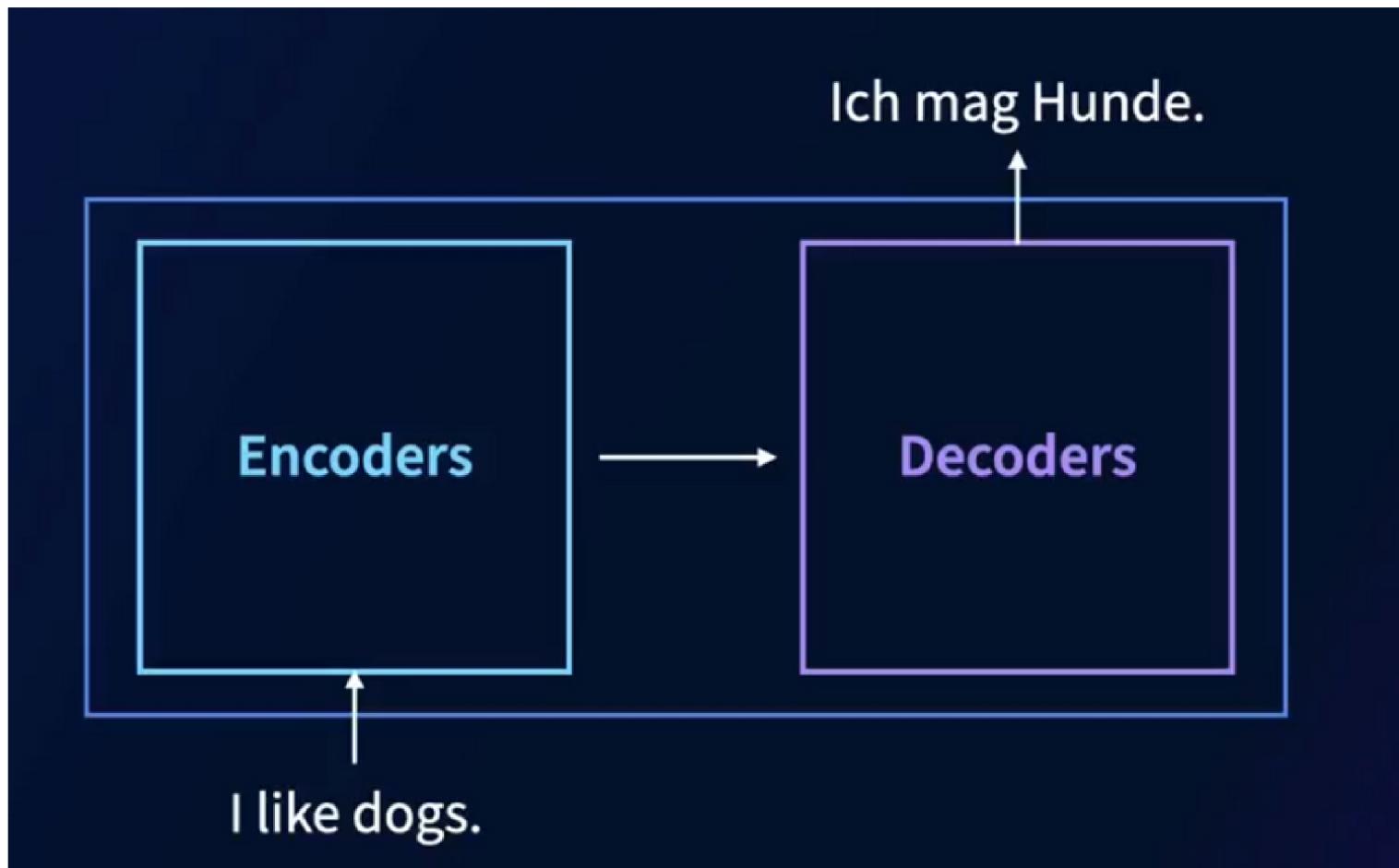
What is Transformer Architecture ?



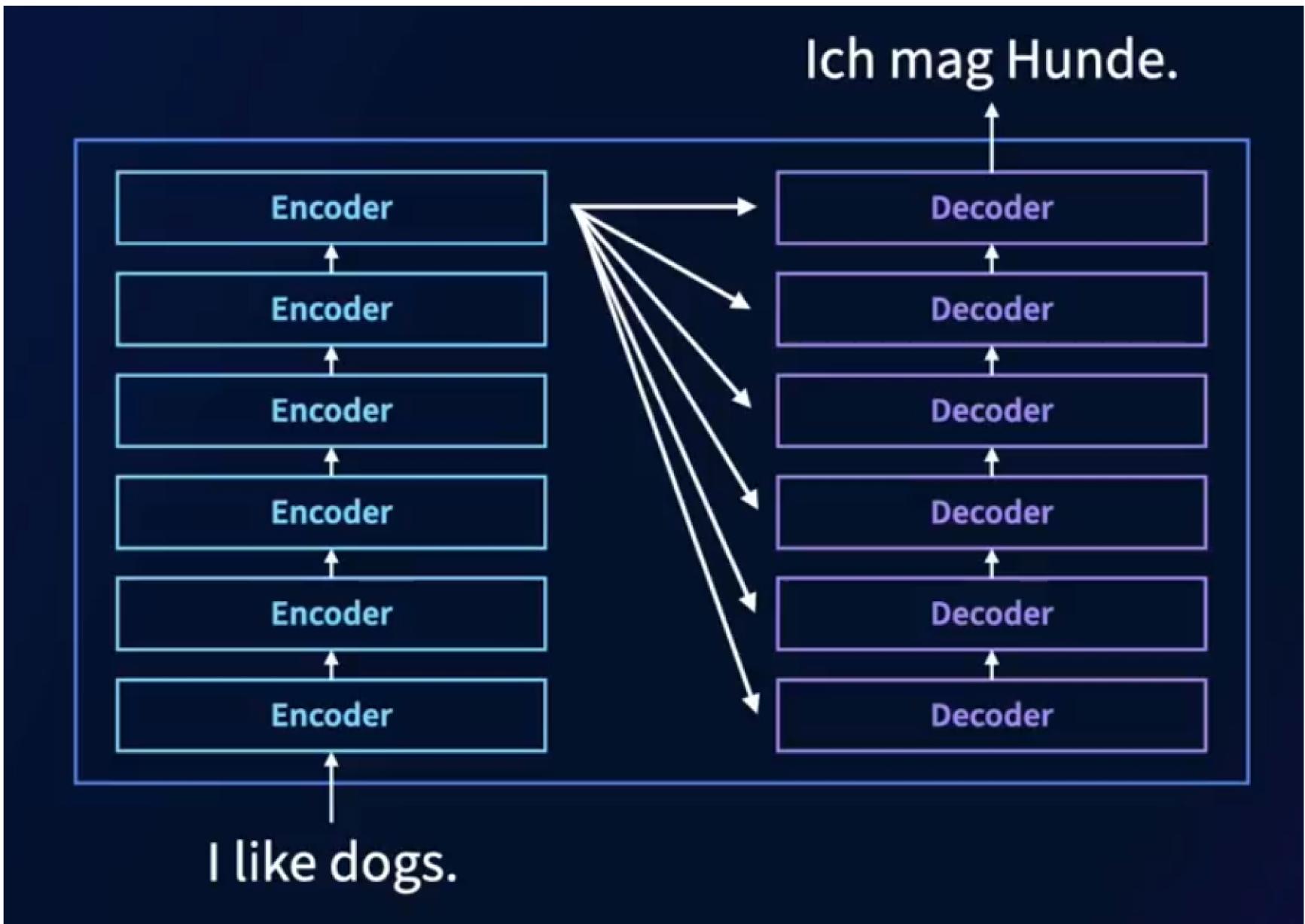
Transformer Architecture



Transformer Working



Transformer Detailed Working

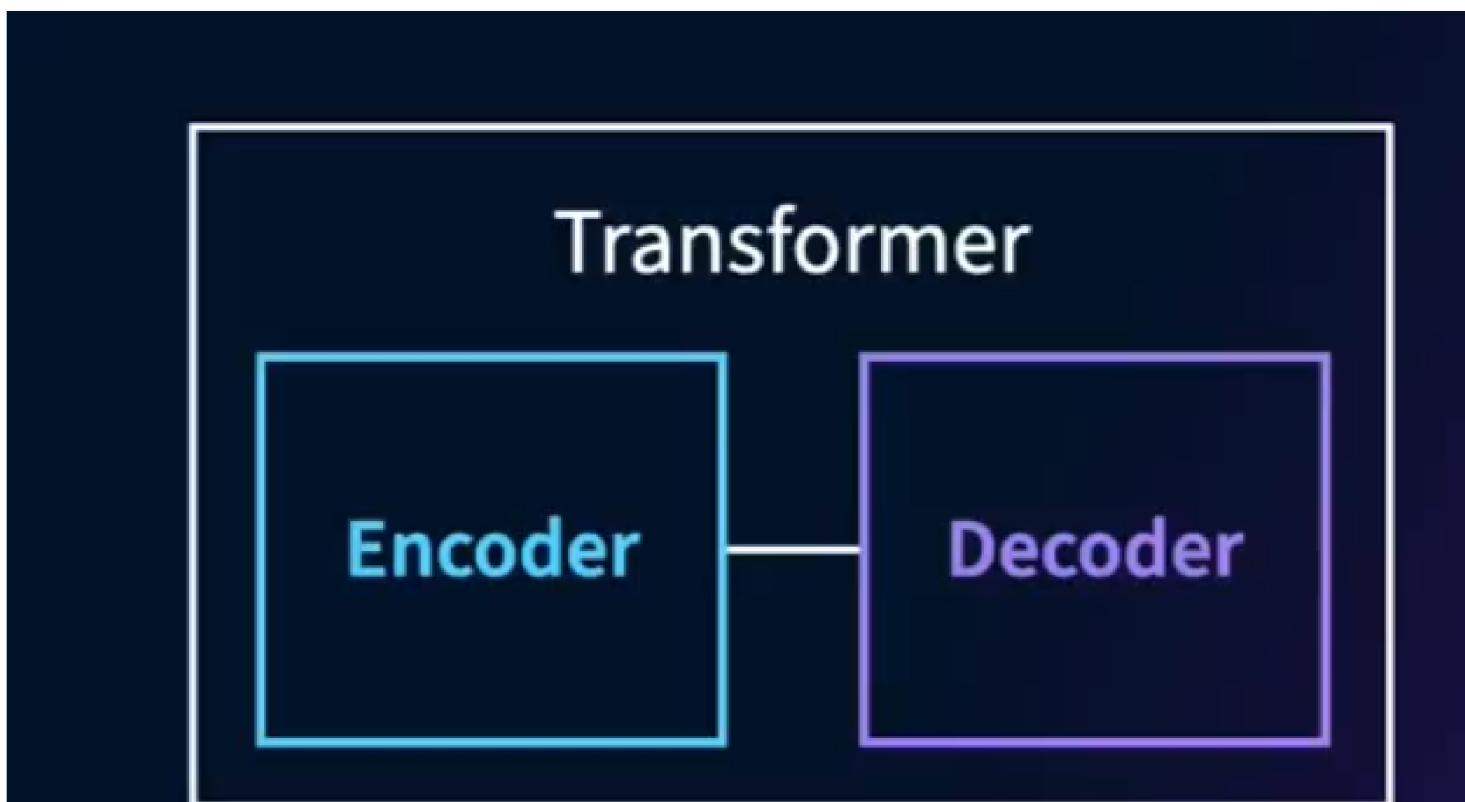


Encoder Decoder Model

Generative Tasks

Translation

Summarization



Encoder Only Model

Good language Understanding

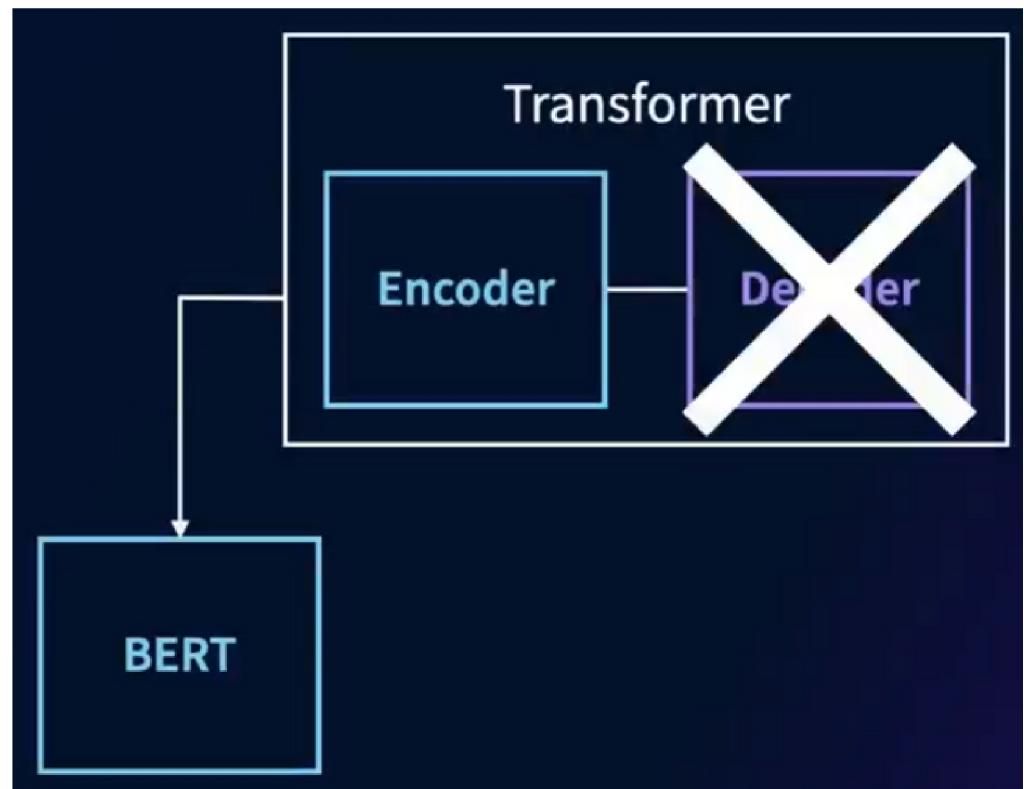
Sentence Classification

Bidirectional

Encoder

Representations Forms

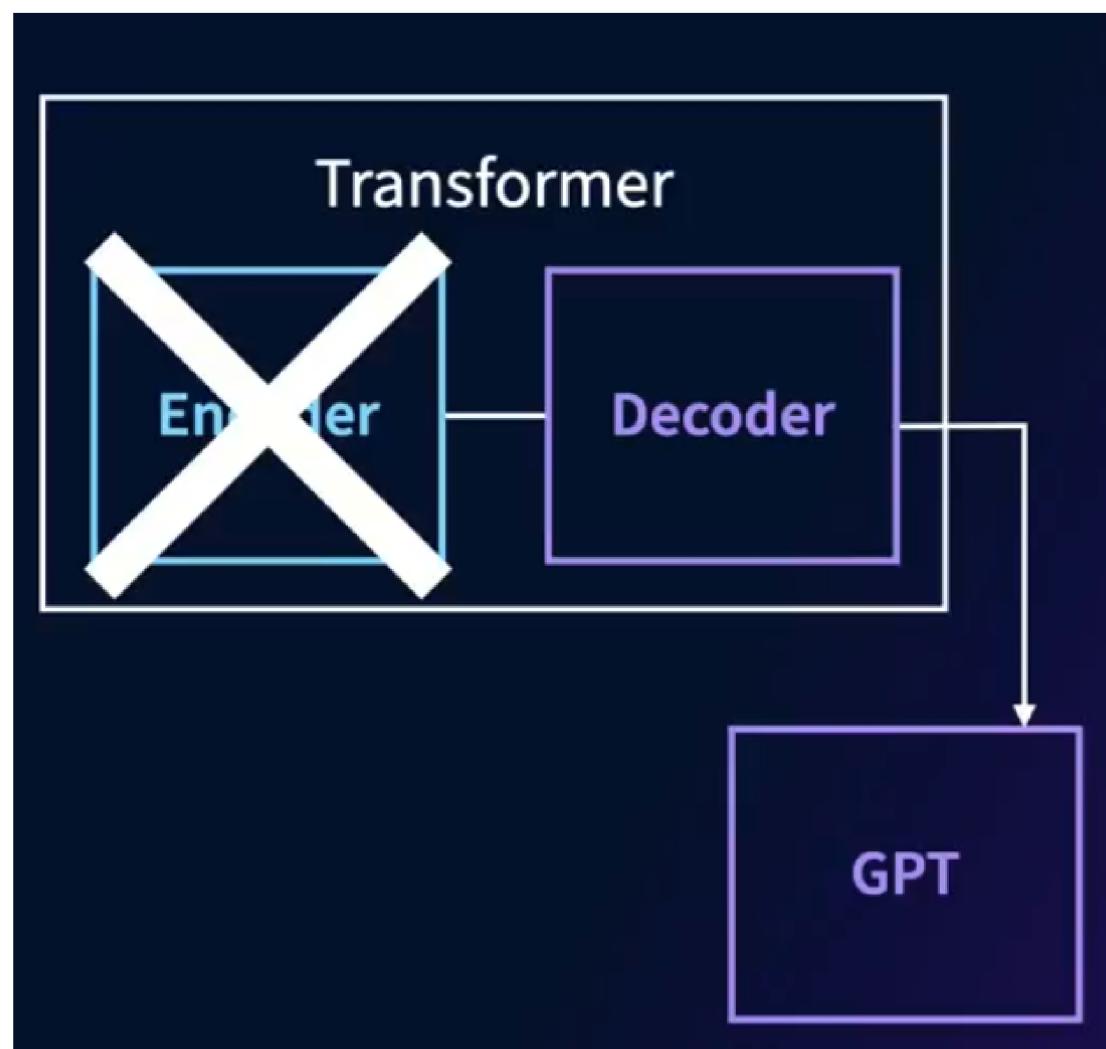
Transformers



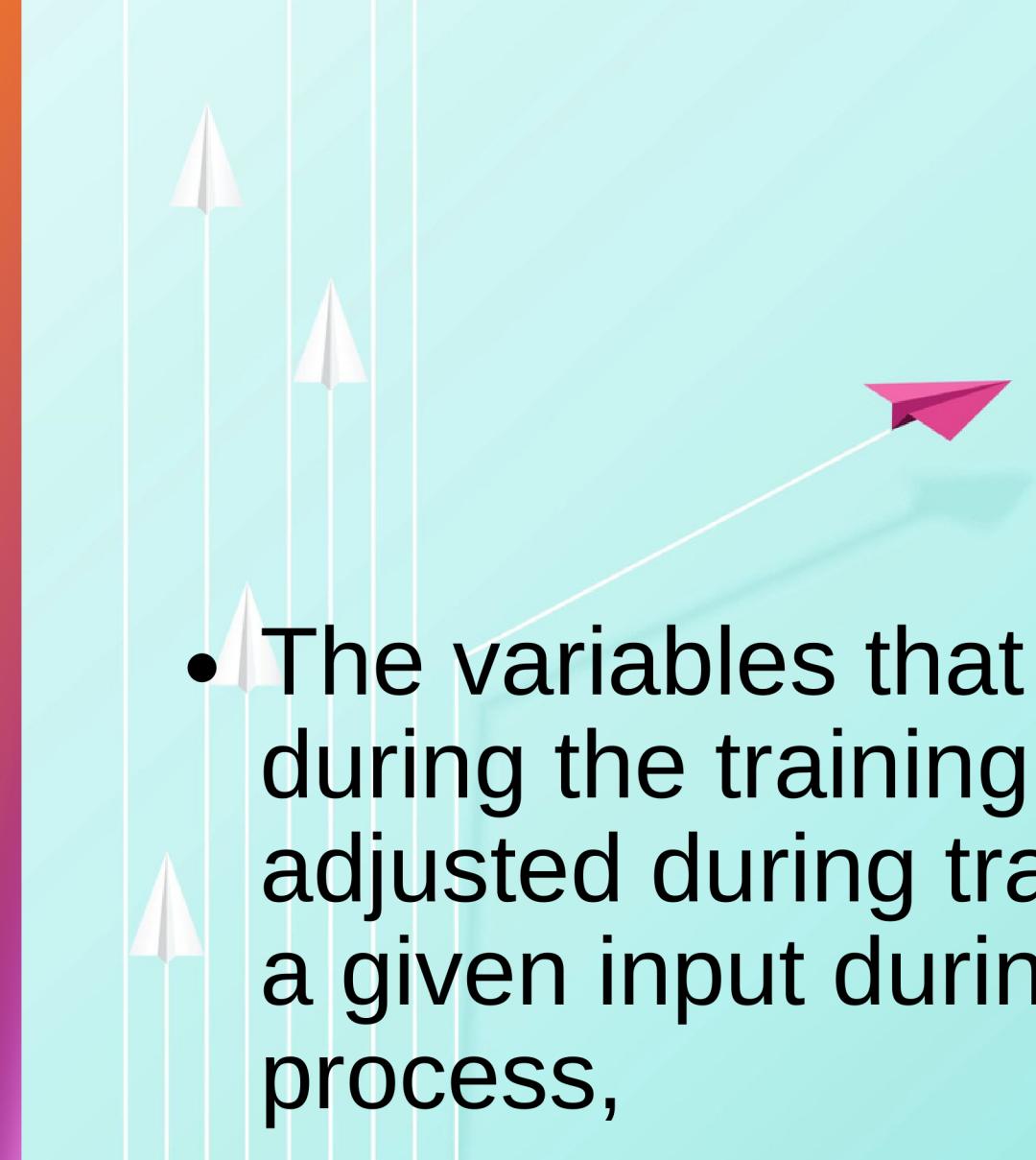
Decoder Only Model

Generative tasks

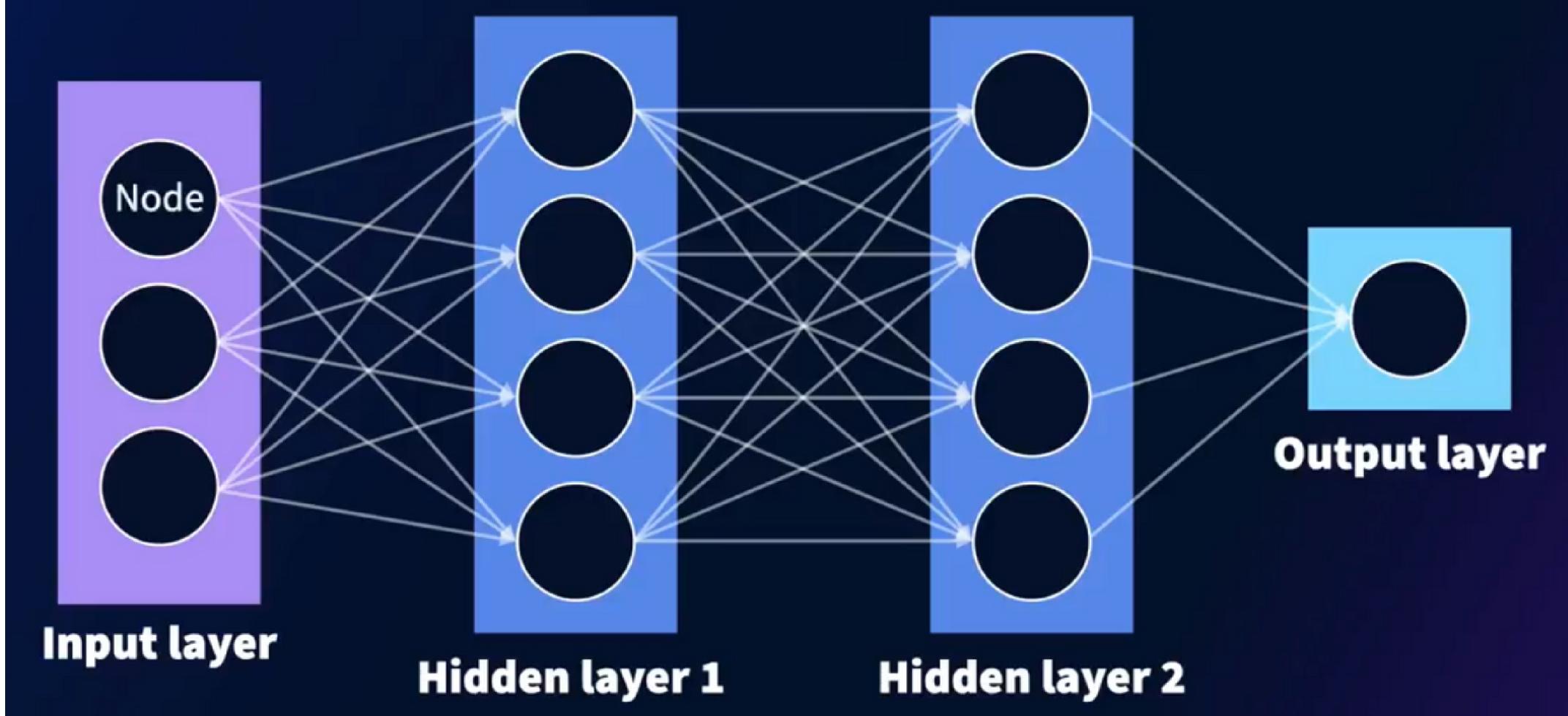
Task Generation

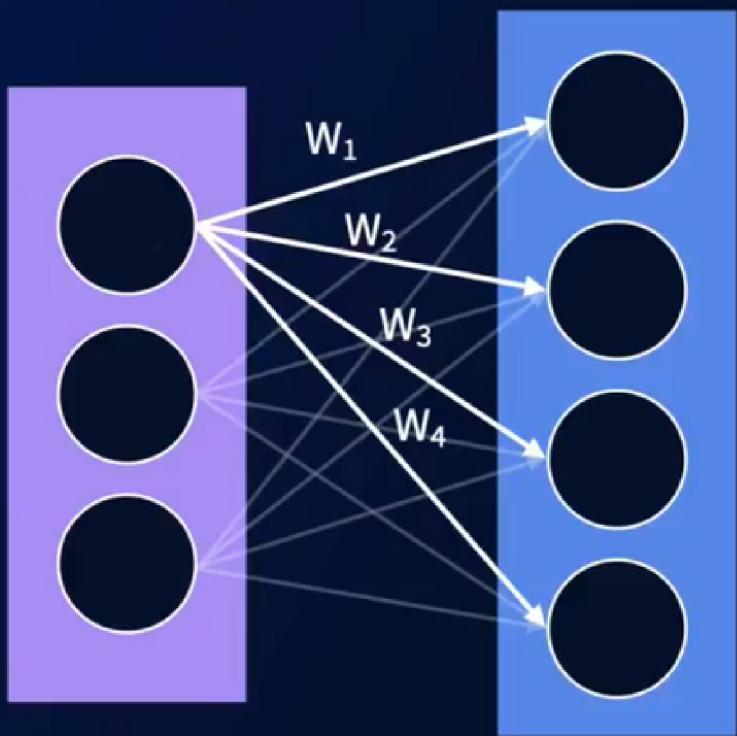


What is Parameters?

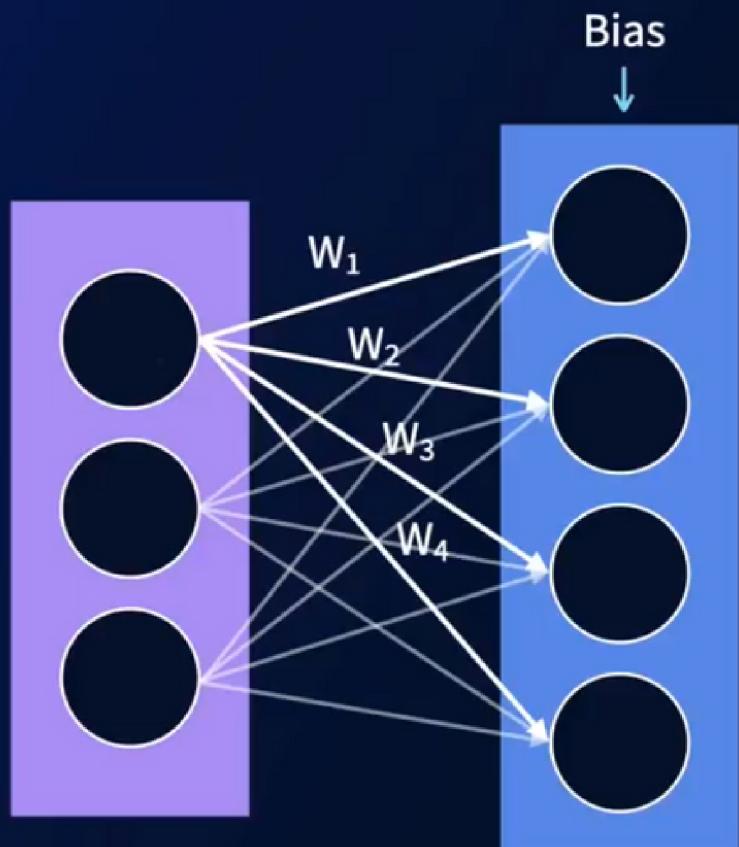
- 
- The variables that the model learns during the training process. They get adjusted during training because for a given input during the training process,

Neural Network





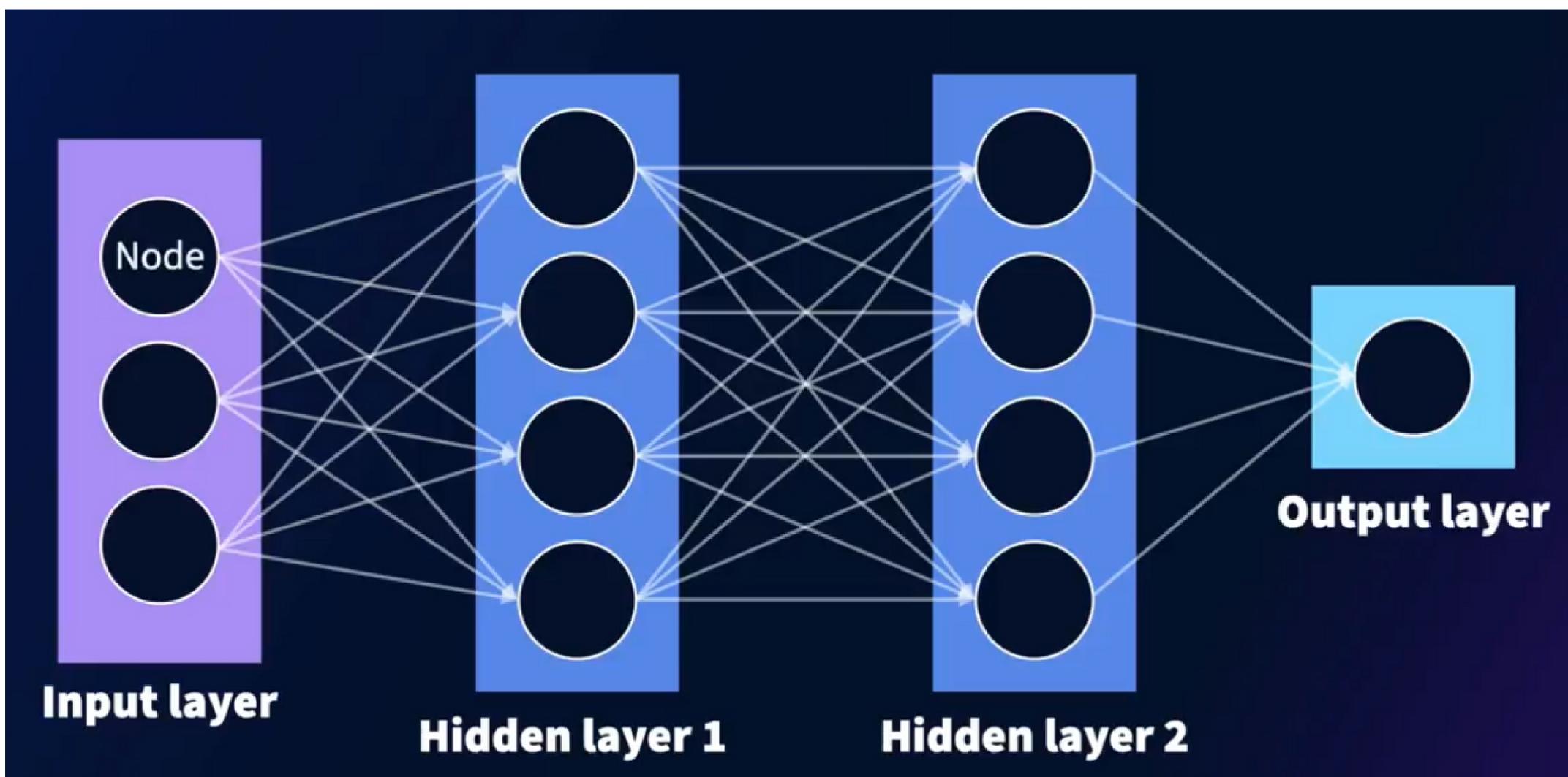
Weights = inputs x outputs



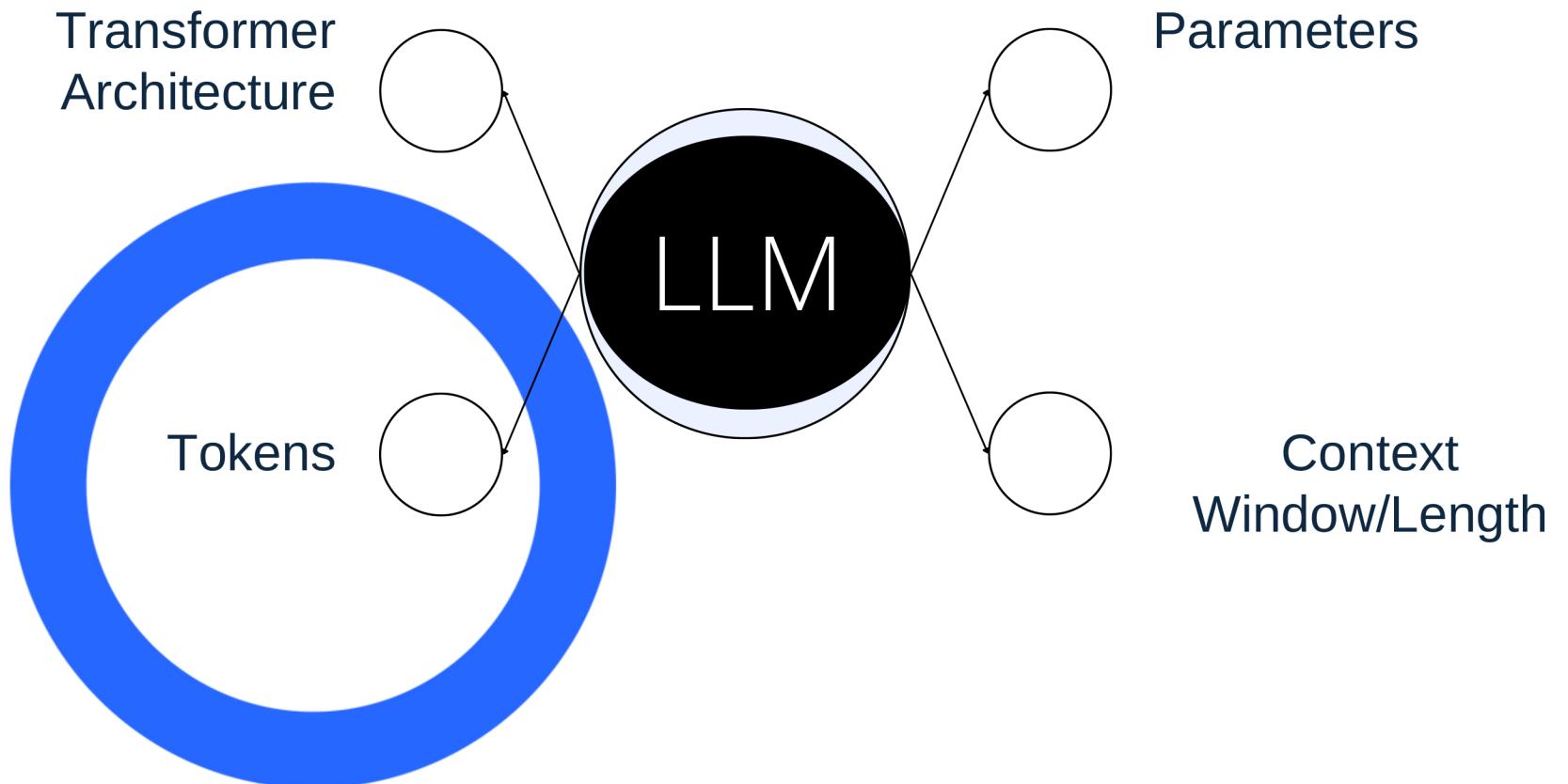
Number of parameters
=

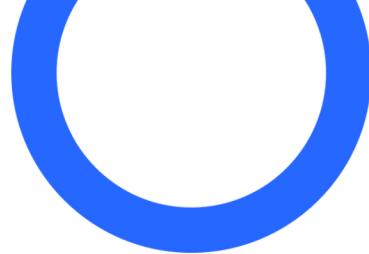
number of weights + biases

Calculating Number of Parameters



Components of LLM

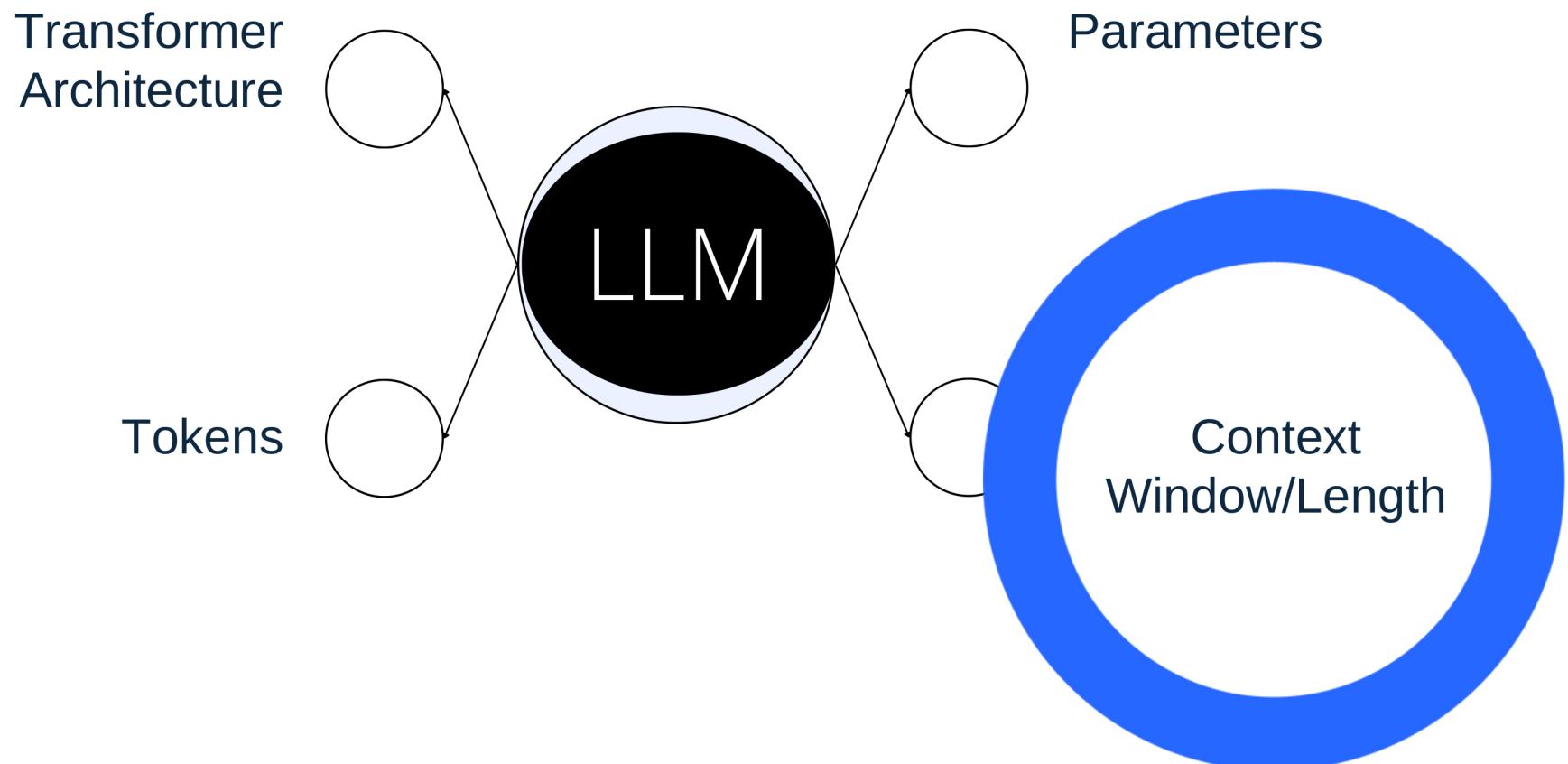




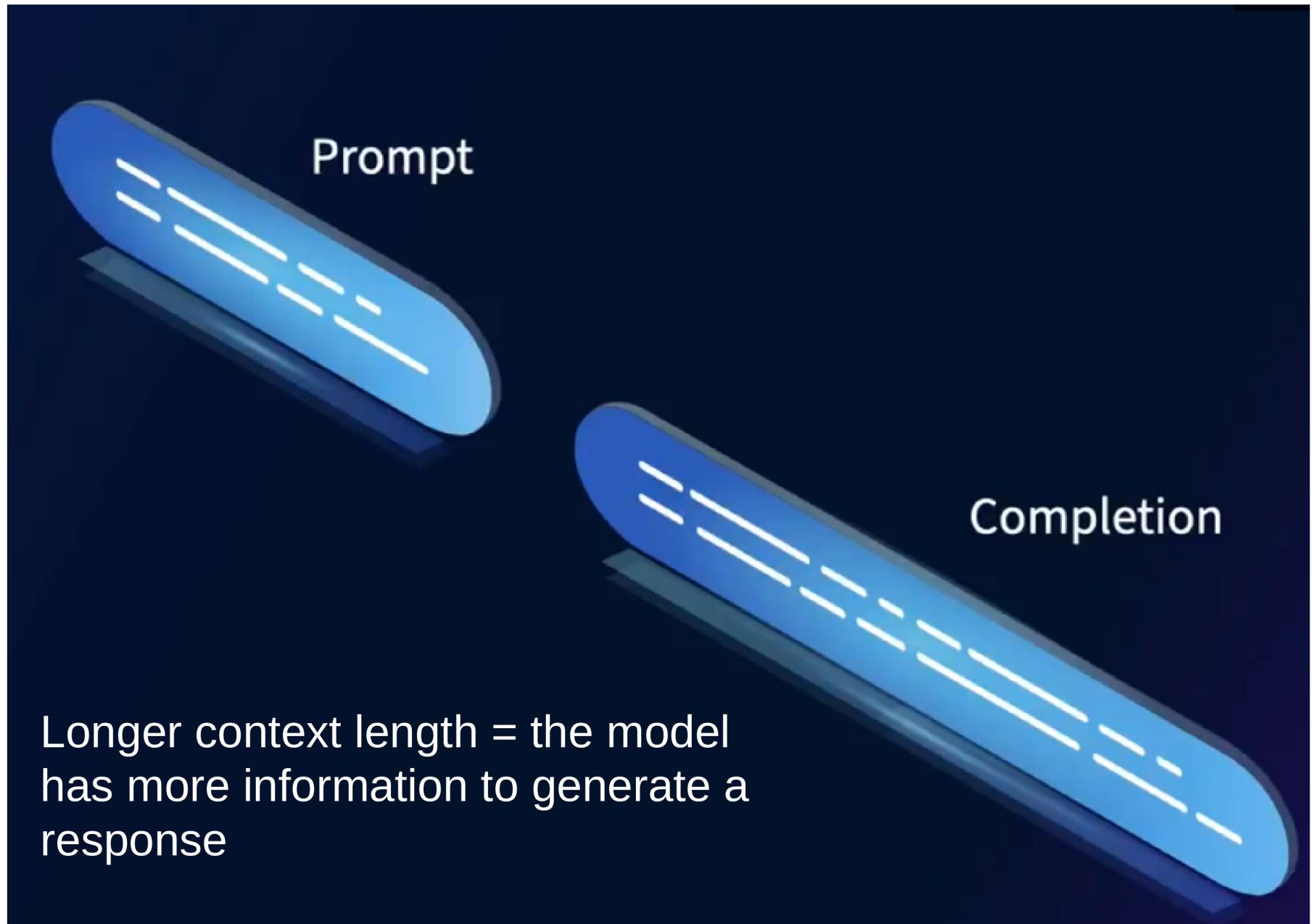
Tokens

- Refers to a chunk of text that the model reads or generates
- Tokens can represent words, subwords, or even characters, depending on the tokenization method used.
- Tokenization provides a structured way to break down text into manageable pieces for the model to process

Components of LLM



Context Length



Company	Model	Context Length (Tokens)
OpenAI	GPT-3	2,048
OpenAI	ChatGPT	4,096
OpenAI	GPT-4	8,192
OpenAI	GPT-4-32k	32,000
Anthropic	Claude 2	100,000

What Next? Join the Free AI Community



Artificial Intelligence

3,694 members

SCAN ME



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- Knowledge Shorts 50+ Videos
- Basic AI & DS courses
- DS & AI materials
- Webinar recording
- Guidance from experts
- 24 by 7 Whatsapp & Discord
- Latest ai Discussion & More...



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Community Profile

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<https://nas.io/artificialintelligence>



What Does The Community Provide?

Gen AI Courses

- ✓ Generative AI (chatGPT) for Business
- ✓ Prompt Engineering for Developers
- ✓ Langchain for AI App Development
- ✓ Gemini LLM

Recordings

- ✓ Outcome-based Workshops
- ✓ AI Community Meetup Recordings
- ✓ Python Projects Videos
- ✓ AI & DS Career & Learning Webinar Series

Data Science Courses

- ✓ Basic Excel For Data Science
- ✓ Basic SQL For AI/Data Science
- ✓ Basic Python for AI/Data Jobs
- ✓ Advanced Python for AI/DS Jobs
- ✓ Basic PowerBI for AI/Data Science
- ✓ Machine Learning
- ✓ Knowledge Shorts
- ✓ Linkedin Growth Mastery

Resources

- ✓ Generative AI Resources
- ✓ Sample Datasets & Projects
- ✓ Sample Reviewed Resume
- ✓ Ready to use Resume Template
- ✓ Linkedin Profile Optimization
- ✓ Essential SQL Documents
- ✓ Essential Python Documents
- ✓ Machine Learning Documents

Every week we have live Zoom calls, Physical Meetups and LinkedIn Audio events and WhatsApp discussions. All calls are recorded and archived.



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