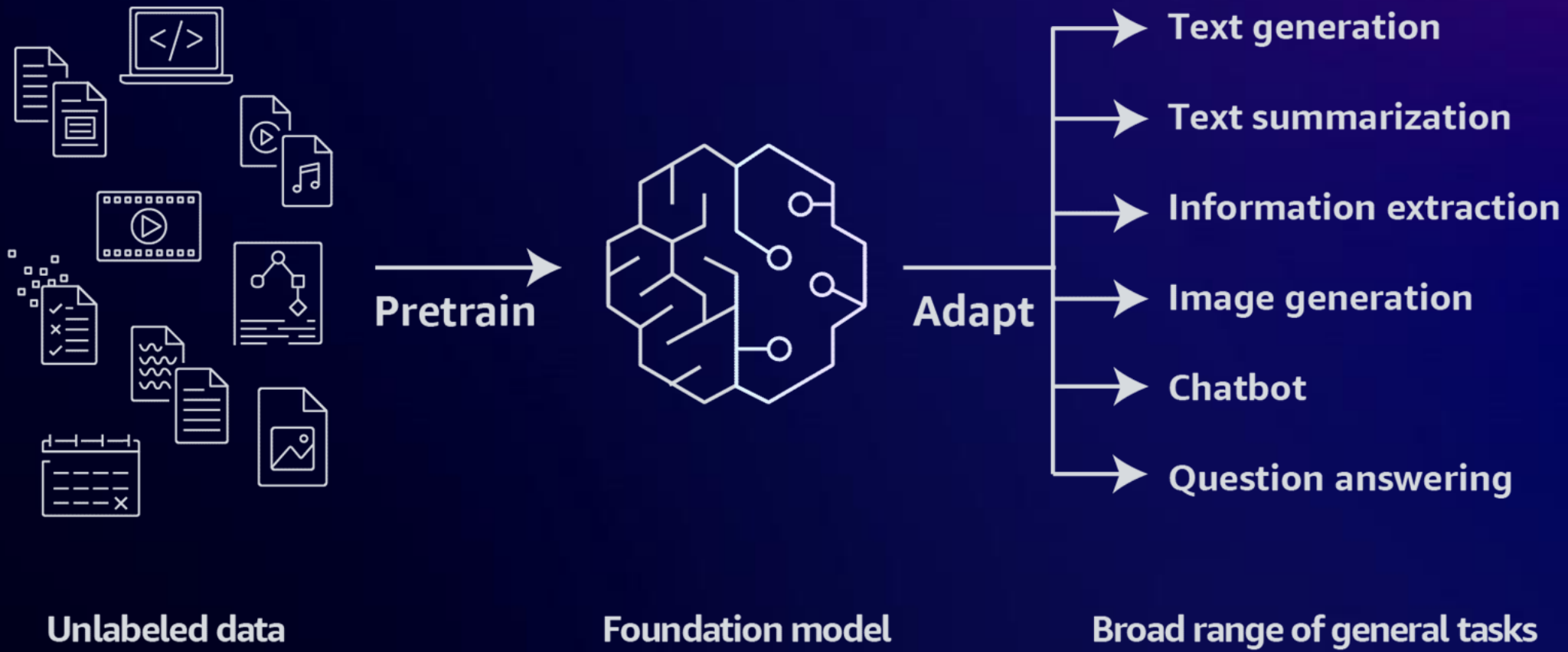
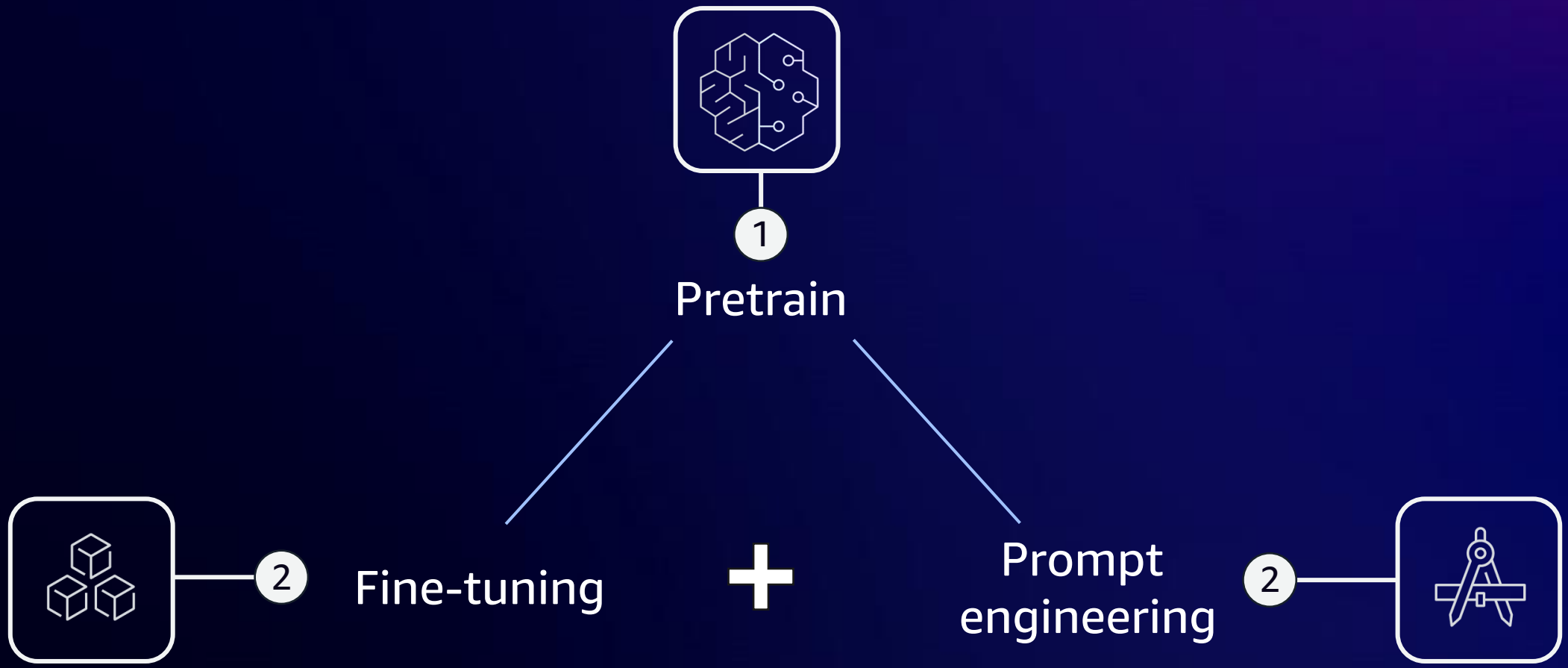
Foundation models and large language models

How does a foundation model function?

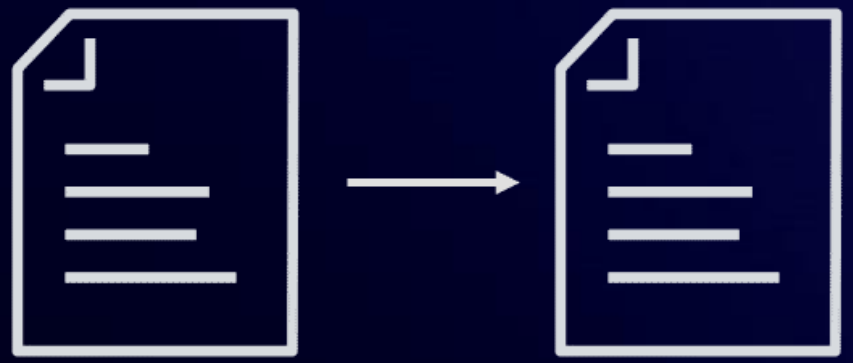


Training FMs

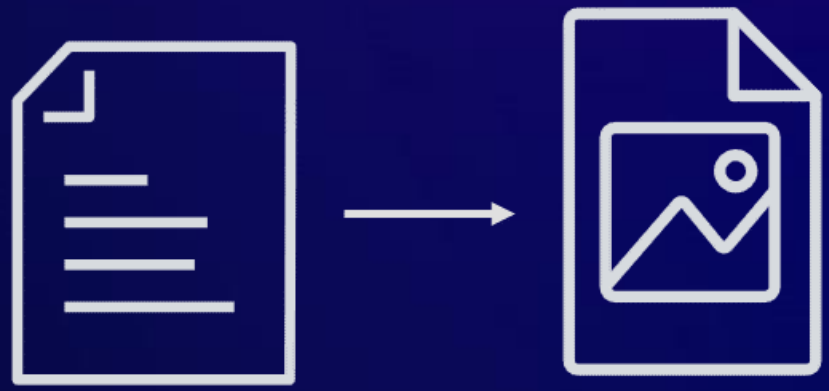


Types of FMs

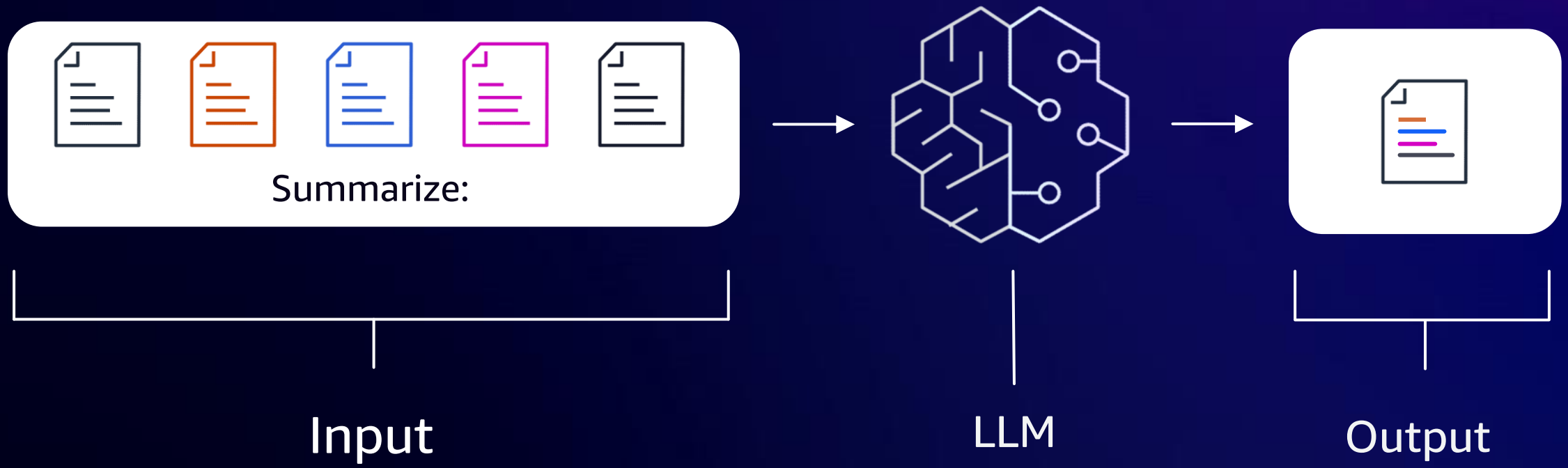
Text-to-text



Text-to-image

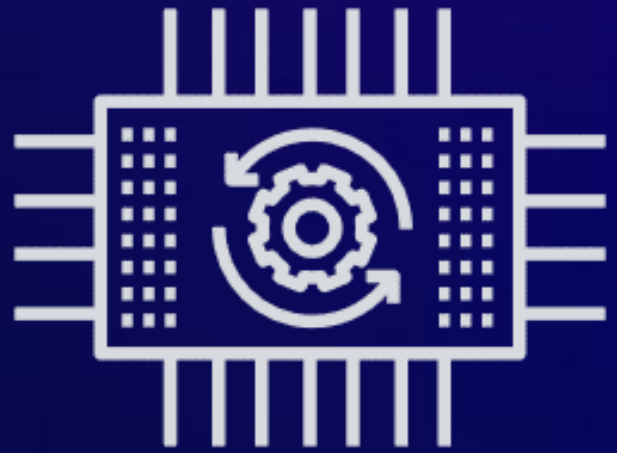


Large language models



Transformer architecture

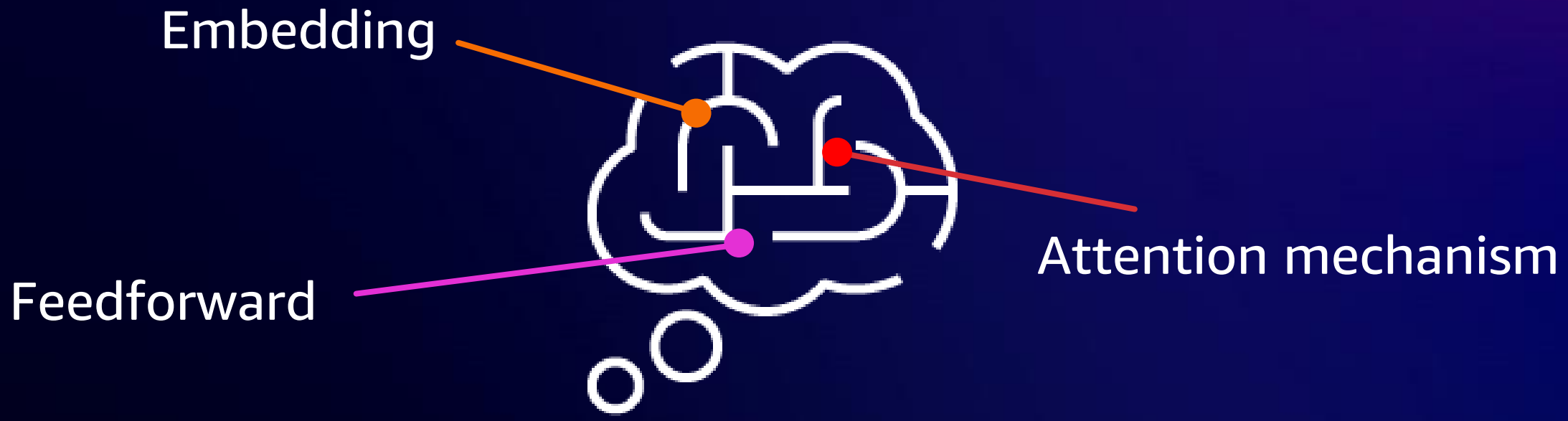
1. Encoder converts input into embeddings
2. Decoder consumes embeddings and emits output text



Key features:

- Parallelizable
- Takes less time to train

Neural networks



LLM use cases

Improves customer experience

- Chatbots
- Call analytics
- Agent assist

Boosts employee productivity

- Conversational assist
- Code generation
- Automated report generation

Enhances creativity and content creation

- Marketing
- Sales
- Product development
- Media and entertainment
- News generation

Accelerates process optimization

- Document processing
- Fraud detection
- Supply-chain optimization