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Context-sensitive information retrieval

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In search of value from documents

→ Context sensitive retrieval to augment decision

→ Knowledge hidden in published documents and PDFs

→ Massive manual effort to reference that knowledge

→ Question answering and discovery is the need of hour

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Prevalence of Retrieval Augmented Generation (RAG)
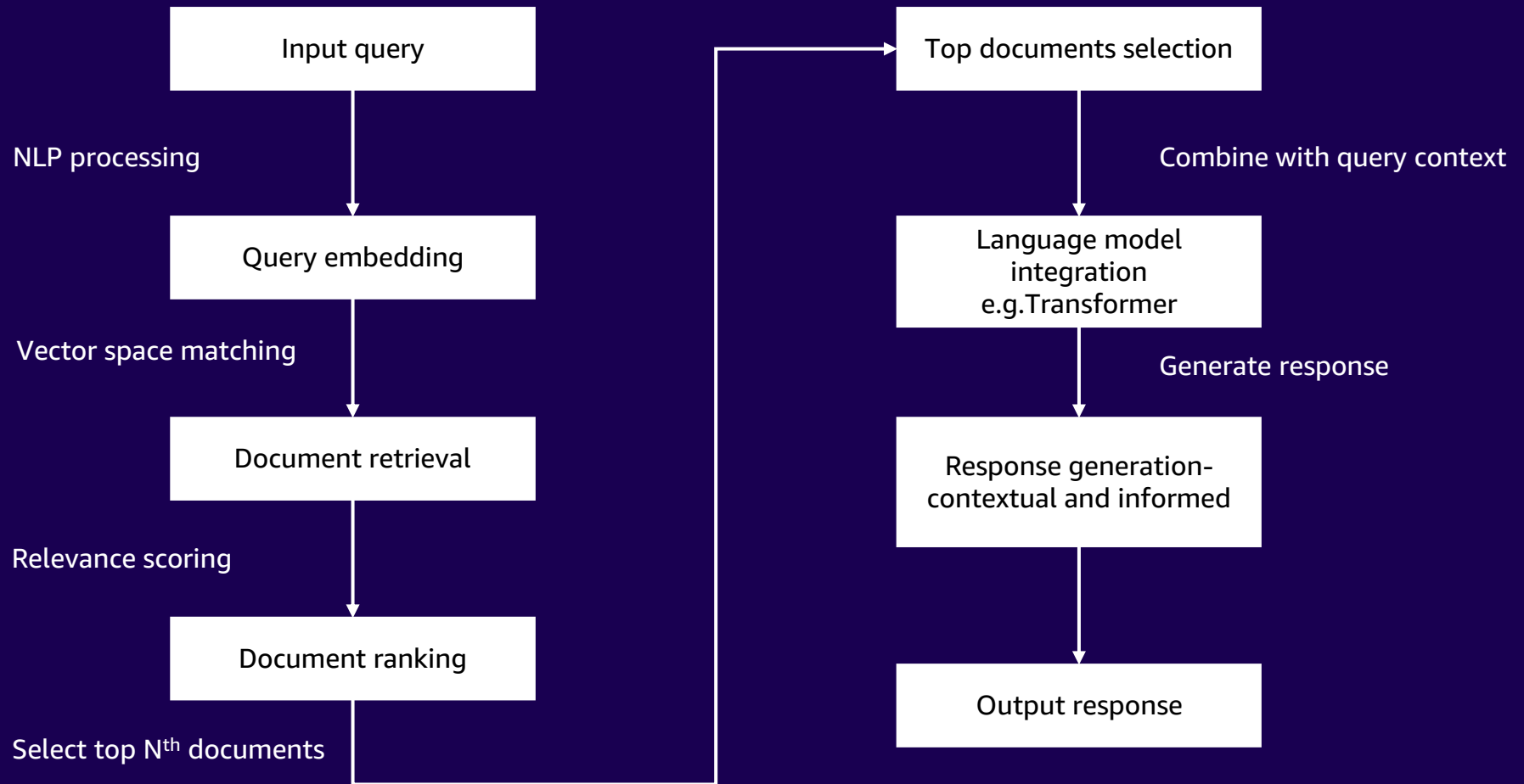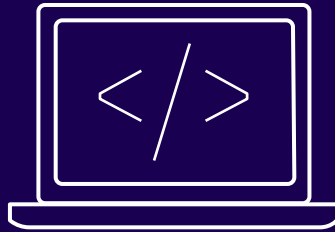

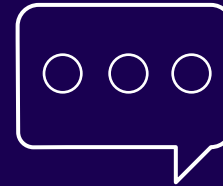Figure: A basic representation of a RAG architecture

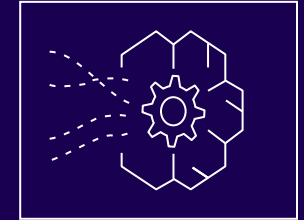# Context sensitive information retrieval (CSIR)

Streamlined document ingestion and extraction
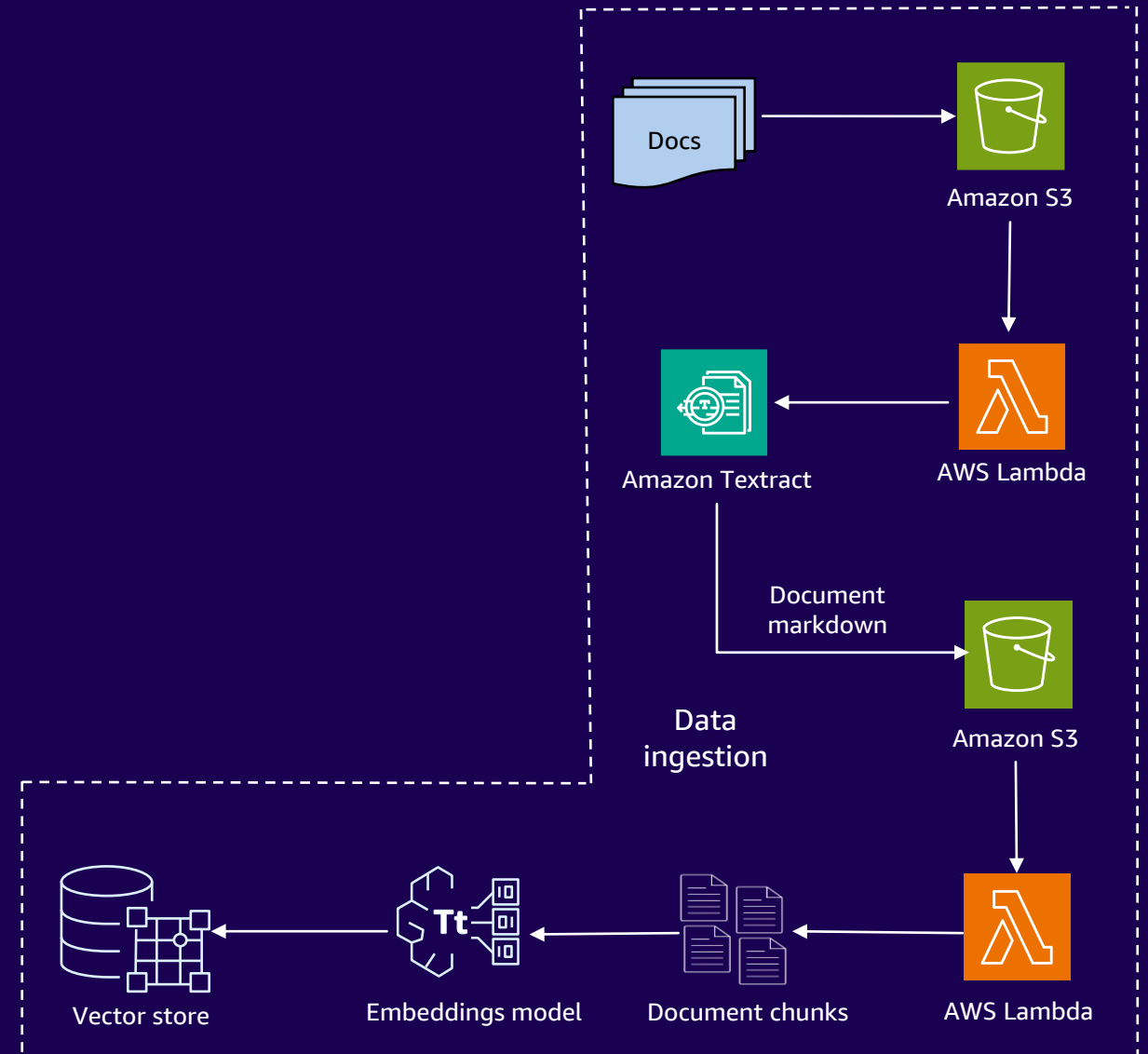
Embedding models and vector store

Chatbot to interact with the knowledge

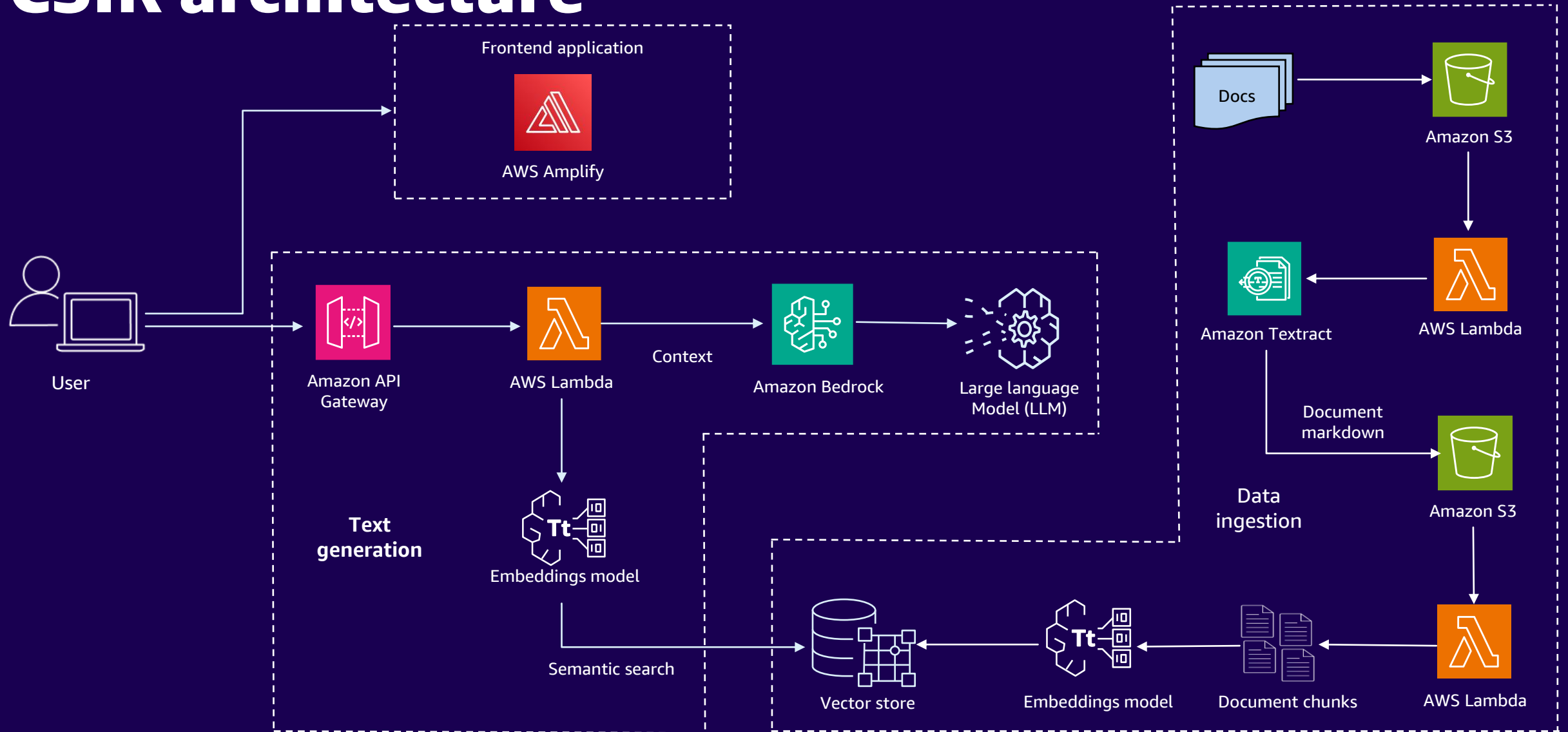Large language models (LLMs) for contextual and semantic queries

CSIR architecture

Data ingestion

Docs → Amazon S3 → AWS Lambda → Amazon Textract

Document markdown → Amazon S3 → AWS Lambda

Document chunks → Embeddings model → Vector store

CSIR architecture

Demo

Recap

→ Seamless knowledge extraction from documents

→ Questions and queries empower decision making

→ Substantial reduction of manual effort

→ Comprehensive and contextually accurate responses

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Resources

→ Intelligent document processing (IDP) on AWS - [here](#)

→ AWS Generative AI RAG workshop - [here](#)

→ Amazon Bedrock prompt engineering workshop - [here](#)

→ Chatbots with Amazon Bedrock Knowledge Bases and agents workshop - [here](#)

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Thank you!