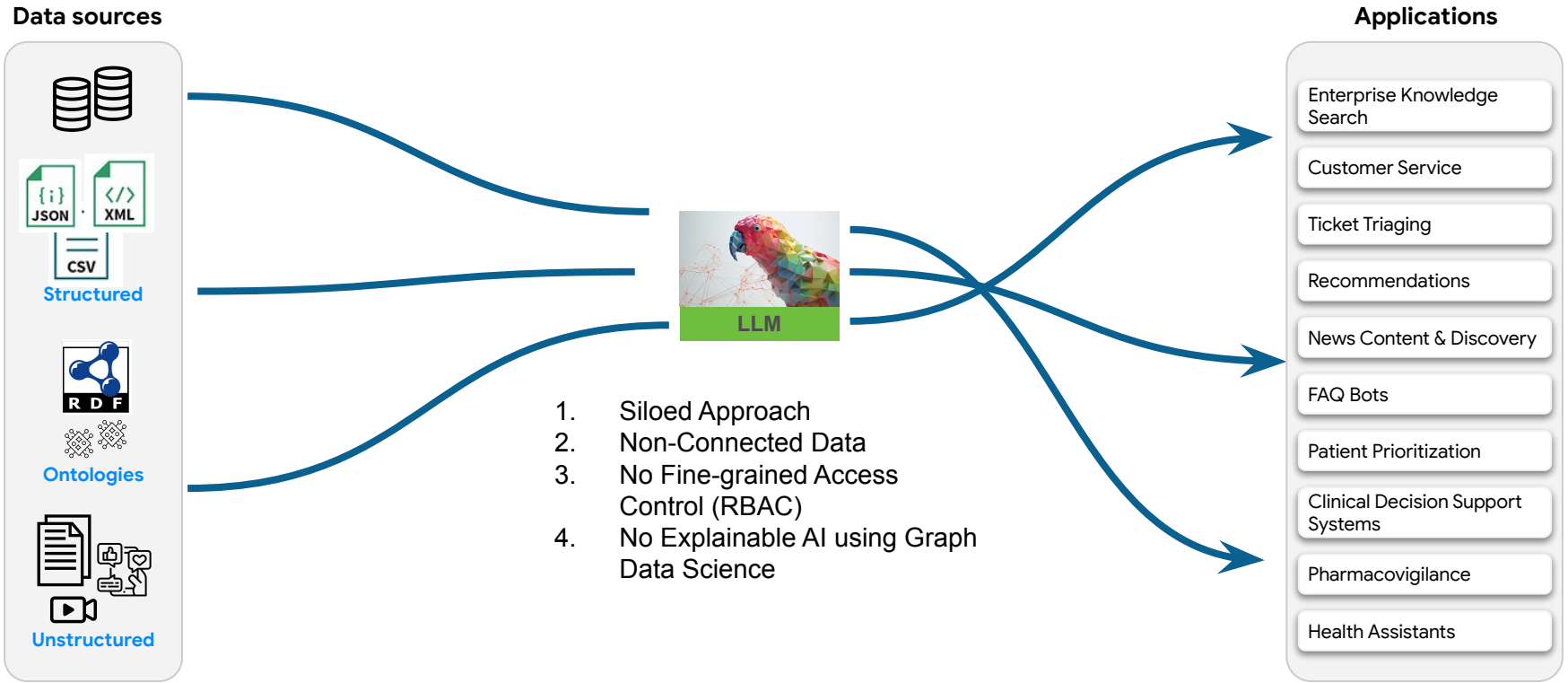
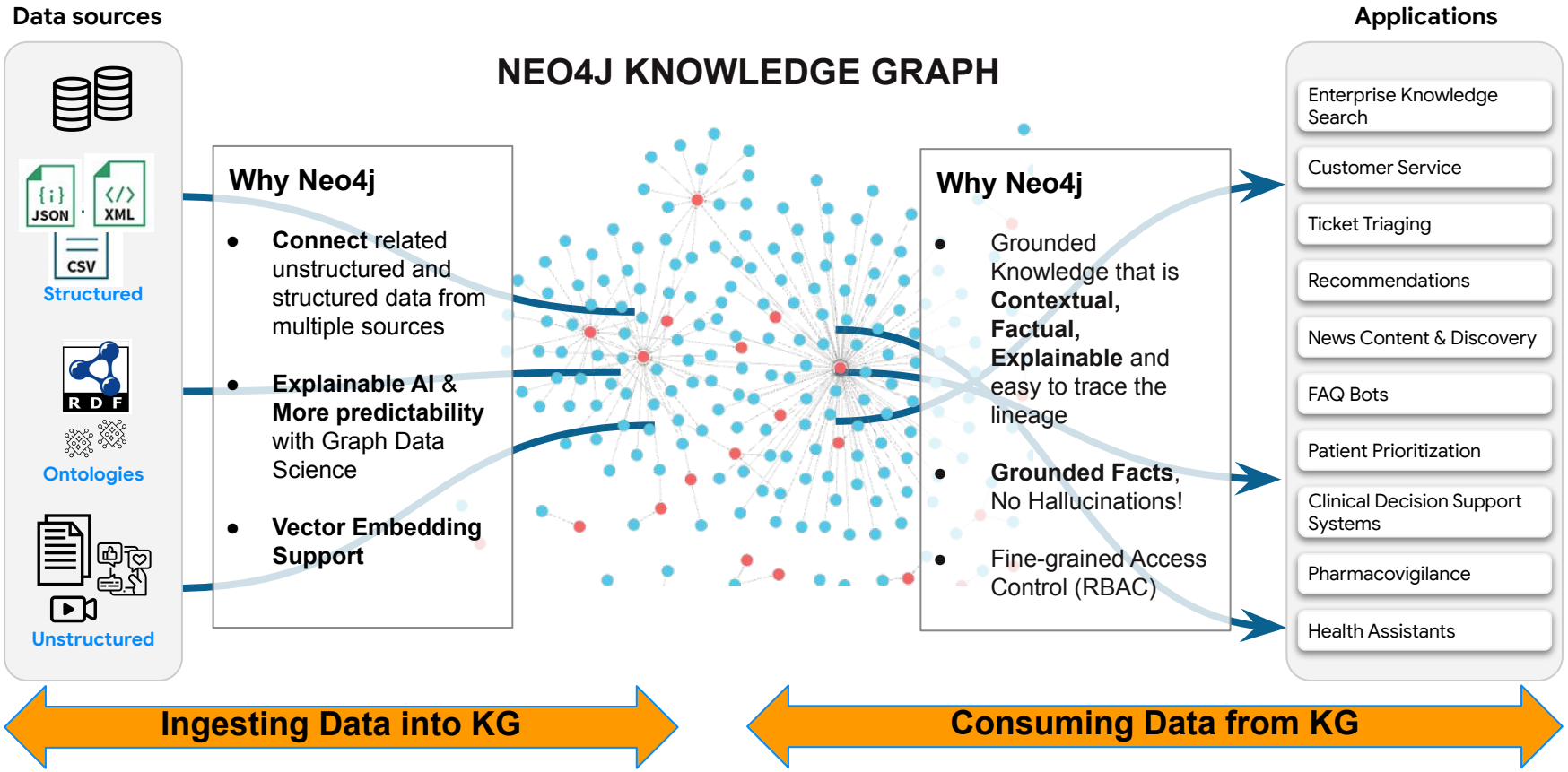
Neo4j and Generative AI

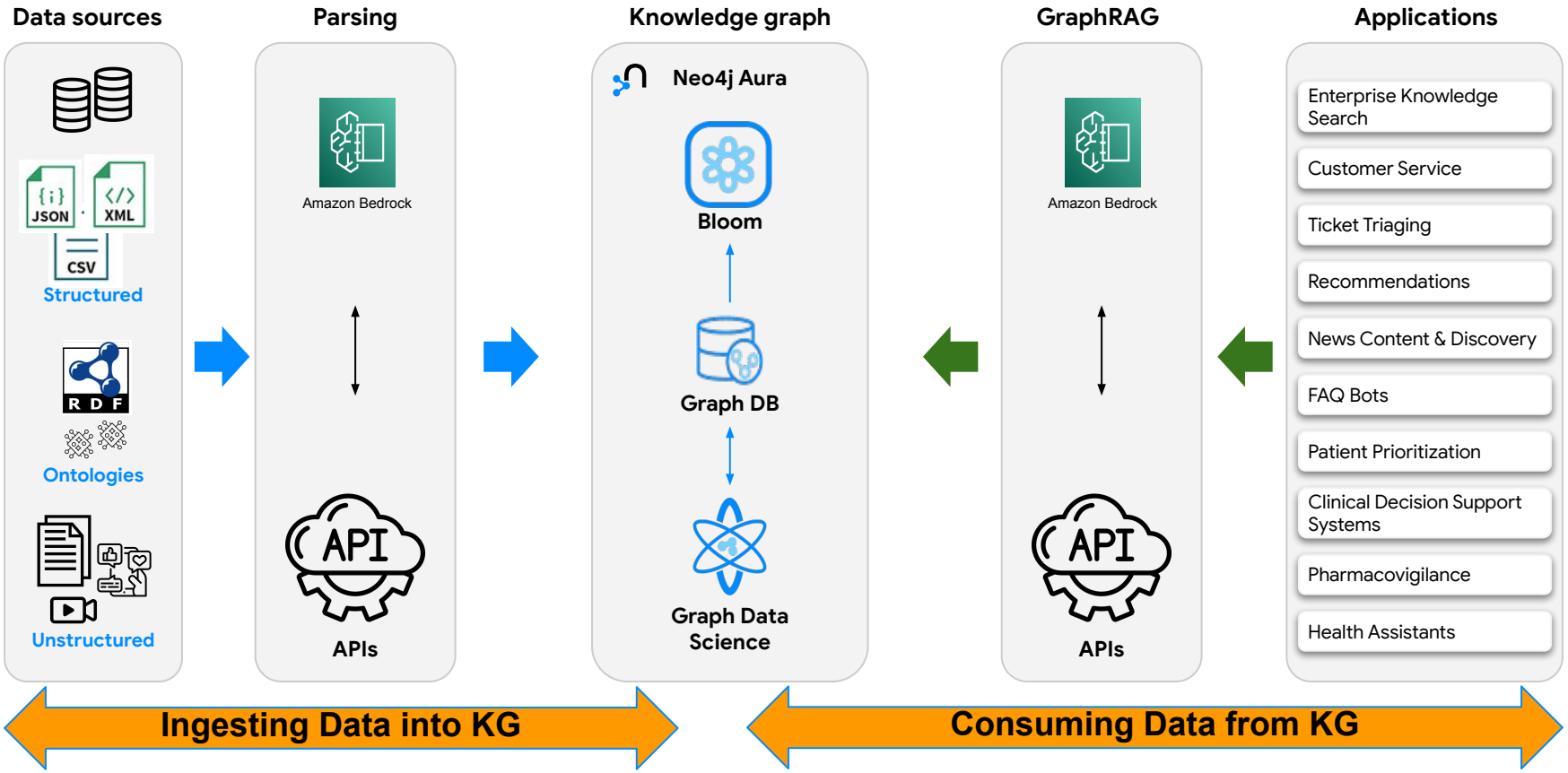
Pure Consumption Model



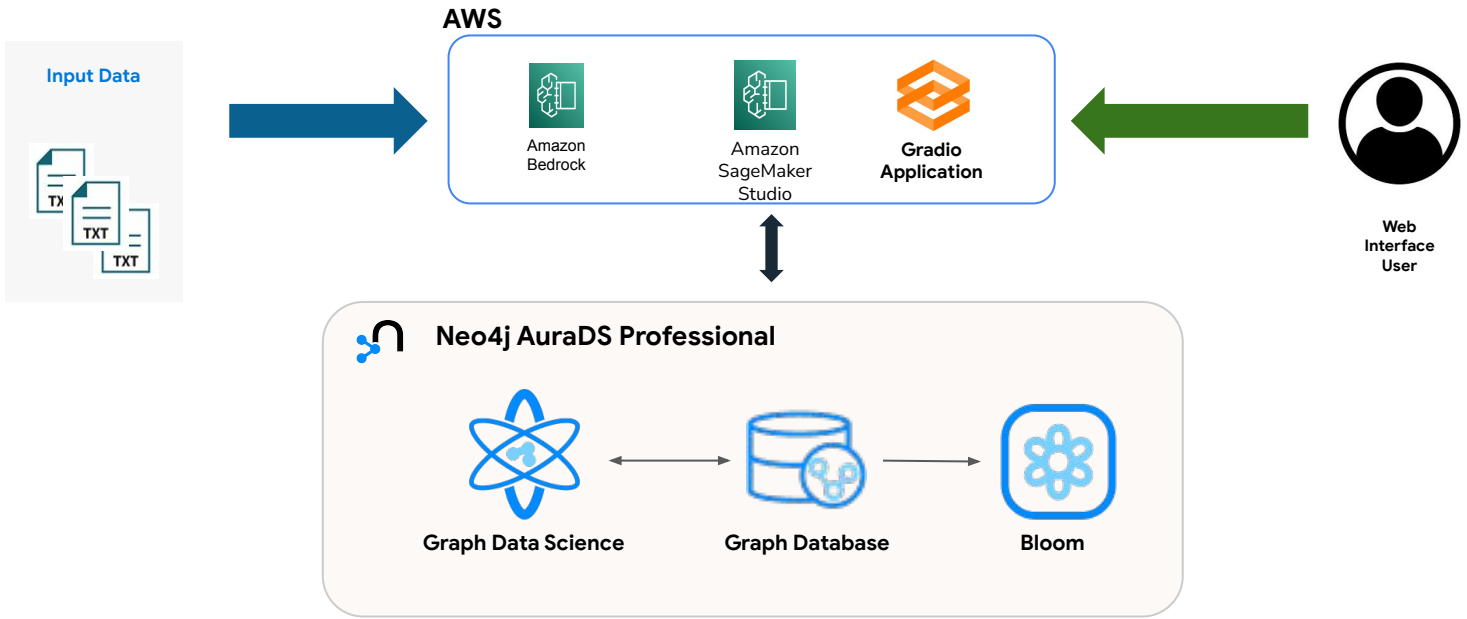
Introducing Knowledge Graphs



Neo4j and Generative AI Reference Architecture

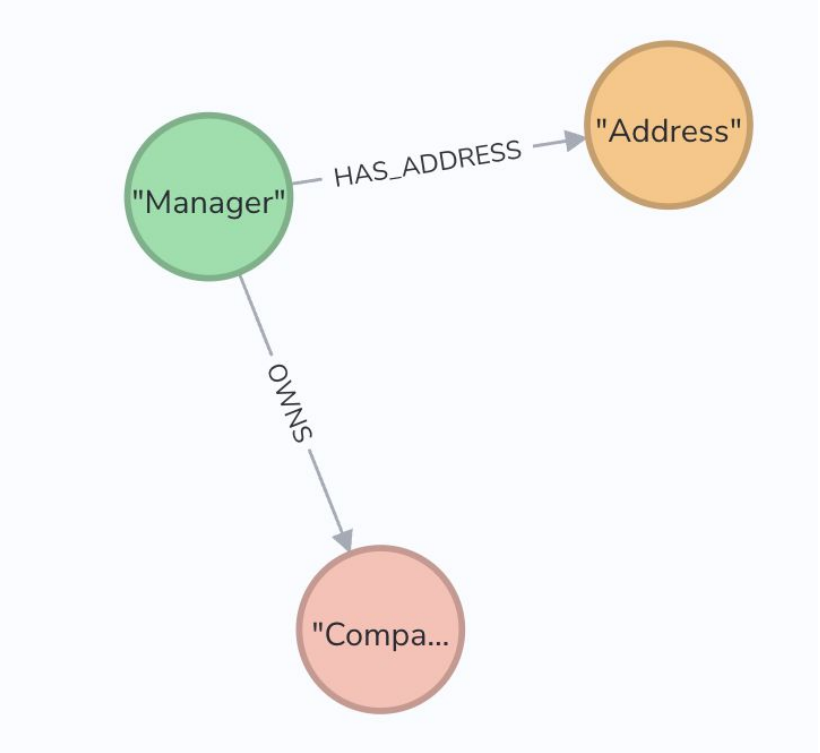


Demo Architecture



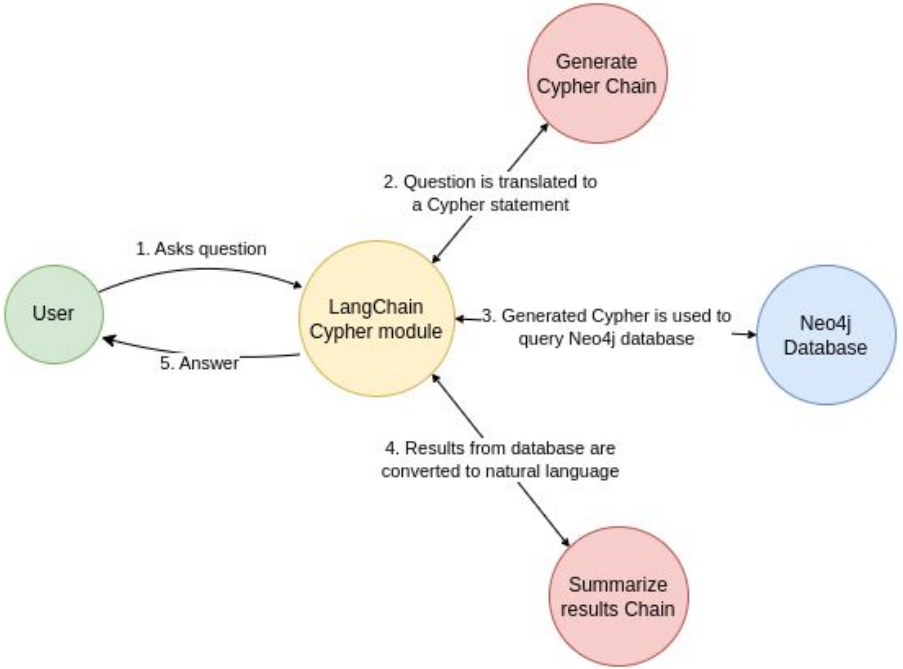
Lab 5 - Parsing

- Zero-shot with a simple prompt with the LLM
- Extract SEC EDGAR filing information in accordance with a Neo4j data model



Lab 6 - Chatbot

- Translates English to Cypher
- Consumption using LLM with few shot prompting
- Data augmentation from Neo4j response



Lab 7 - Knowledge Graphs and Semantic Search

If your focus is analyzing documents on a file system, then vector indexing and search on text embeddings may be sufficient.

If you need to retrieve and make inferences about people, places, and things connected to those documents, knowledge graphs can help.