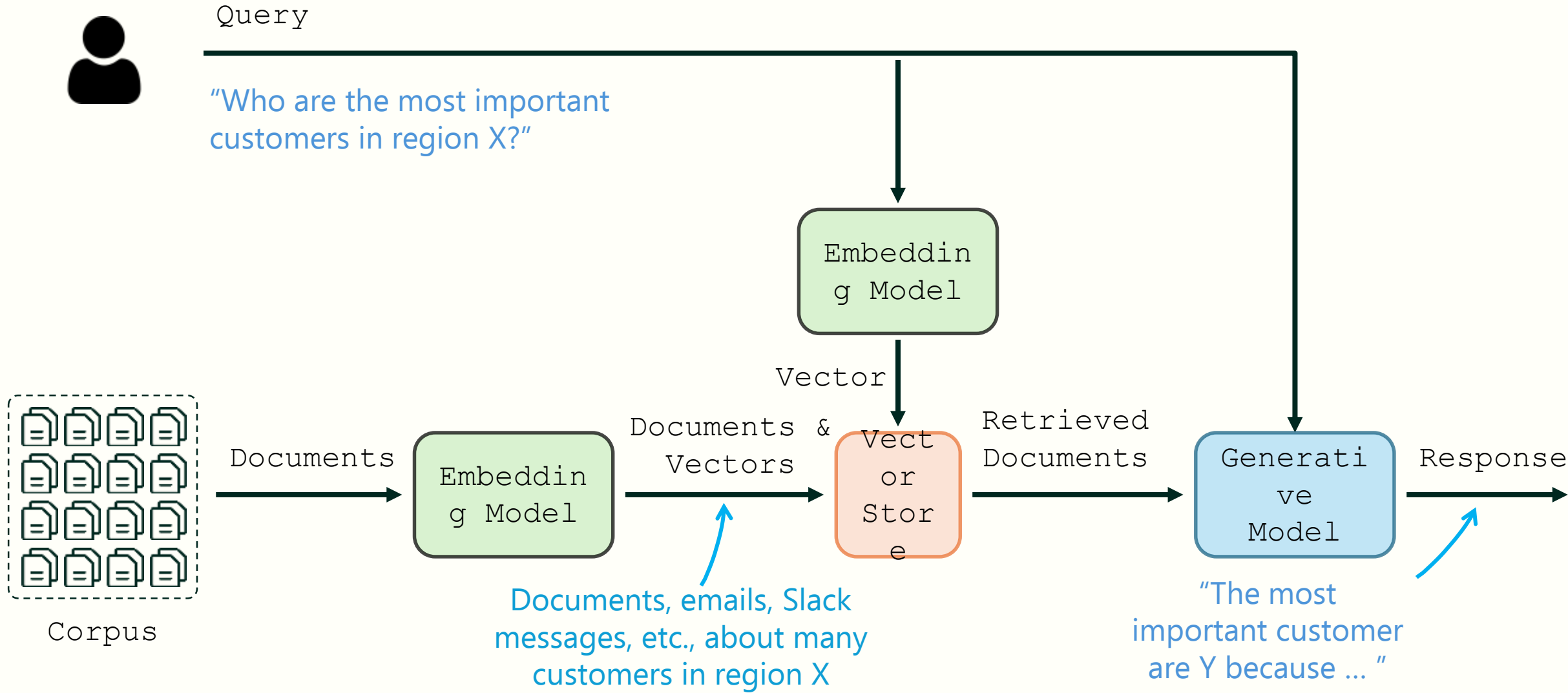


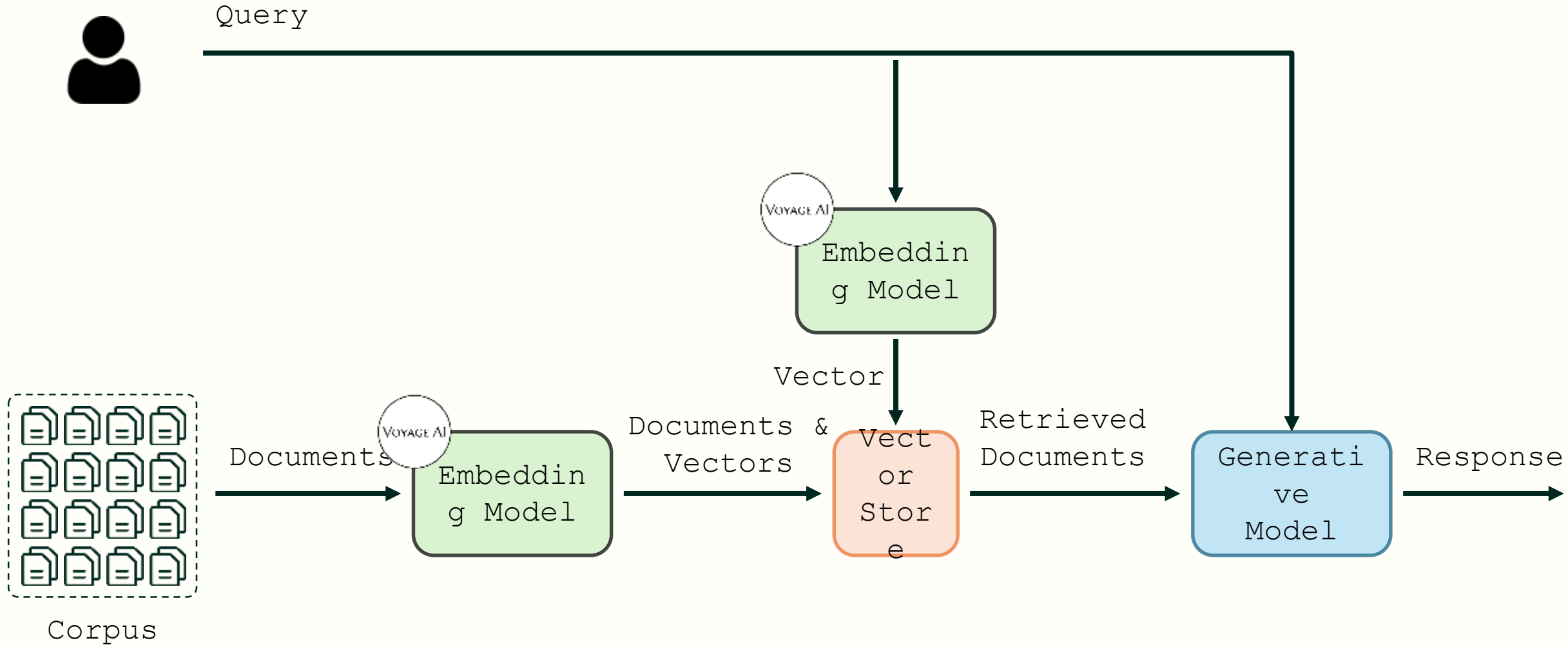
VOYAGE AI

Embedding models

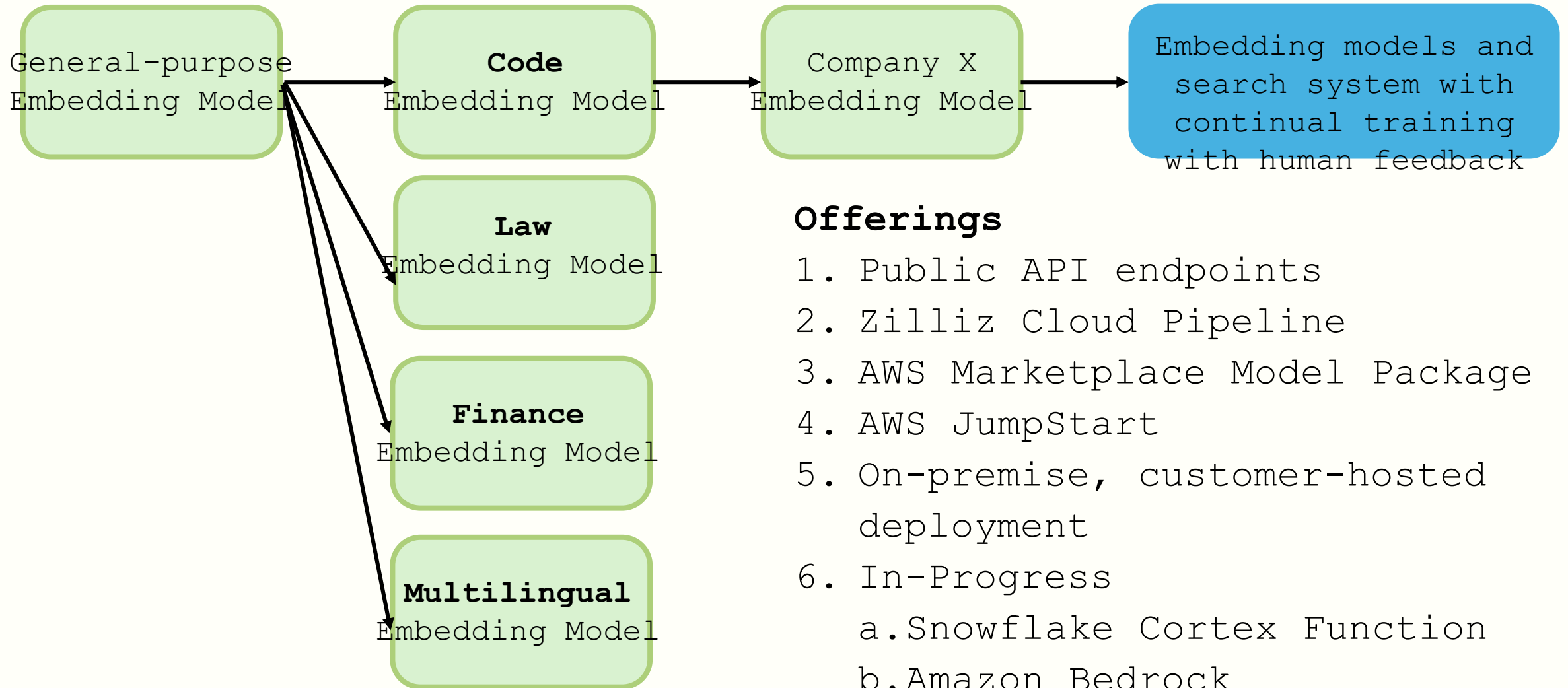
(RAG) is the Predominant Approach for Enterprise Gen AI



(RAG) is the Predominant Approach for Enterprise Gen AI



Voyage AI Products and Offerings



Voyage Models are State-of-the-Art in Retrieval Quality

Recall@5 for Industry-domain Retrieval Datasets

| <div>Datasets Models</div> | Industry-Average | Langchain Docs | Health4CA Policies | DoorDash Reviews | PyTorch Docs | CNN Sports News | Cohere Docs | Verizon 5G Docs | Huffpost Science News | Onesignal Docs |
|--------------------------------|------------------|----------------|--------------------|------------------|--------------|-----------------|--------------|-----------------|-----------------------|----------------|
| BAAI/bge | 77.67 | 63.19 | 88.83 | 54.19 | 76.41 | 89.00 | 85.75 | 84.89 | 92.61 | 64.20 |
| Cohere v3 | 82.03 | 65.88 | 90.08 | 58.77 | 84.34 | 95.85 | 86.28 | 87.11 | 96.18 | 73.78 |
| OpenAI-3-large | 83.93 | 64.70 | 92.11 | 51.29 | 90.25 | 97.73 | 88.14 | 92.79 | 97.55 | 80.85 |
| voyage-2 | 86.68 | 74.20 | 92.18 | 59.42 | 93.78 | 96.00 | 91.25 | 93.74 | 96.62 | 82.91 |
| voyage-large-2 | 86.96 | 73.19 | 92.05 | 59.55 | 94.42 | 97.11 | 91.74 | 93.01 | 97.90 | 83.68 |

The Code Embedding Model Excels on Code Retrieval Tasks

Recall@5 for Code Retrieval Datasets

| <div>Datasets Models</div> | Code-Average | APPS | HumanEval-Text | HumanEval-TextCode | CodeChefCPP | CodeChef Python | MBPP | DS-1000 | DS-1000-ReferenceOnly | LeetCodeCpp | LeetCodeJava | LeetCode Python |
|--------------------------------|--------------|-------|----------------|--------------------|-------------|-----------------|-------|---------|-----------------------|-------------|--------------|-----------------|
| BAAI/bge | 53.74 | 5.93 | 73.42 | 78.66 | 4.74 | 9.24 | 88.40 | 46.40 | 44.65 | 75.87 | 80.11 | 83.73 |
| Cohere v3 | 62.68 | 11.56 | 87.98 | 90.24 | 8.82 | 18.18 | 88.50 | 58.61 | 65.57 | 85.04 | 88.10 | 86.90 |
| OpenAI-3-large | 75.84 | 24.45 | 99.37 | 100.00 | 25.61 | 29.13 | 94.56 | 80.48 | 84.18 | 98.89 | 98.91 | 98.70 |
| voyage-code-2 | 90.36 | 74.17 | 99.37 | 100.00 | 72.17 | 76.00 | 96.41 | 88.84 | 87.24 | 100.00 | 99.91 | 99.90 |

Early Pilot Partners

Harvey.



LlamaIndex

ANTHROPIC



weaviate



zilliz



snowflake

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Embeddings

Embeddings overview

Text embeddings are numerical representations of text. You can use the distance between two embeddings to measure how related those pieces of text are to one another. In general, smaller distances predict higher relevance.

Comparing the similarity of strings, or clusters of strings, is a common use case for embeddings in applications including search (popular in e-commerce), recommendation systems, and natural language processing.

How to get embeddings with Voyage AI

When selecting an embeddings provider, there are several factors to consider:

- **Dataset size & domain specificity:** Size of the dataset used to train the model. Larger or more domain-specific data generally produces better in-domain embeddings.
- **Model architecture:** Model design and complexity. More modern techniques and architectures like Transformers tend to learn and produce higher quality embeddings.
- **Inference performance:** Embedding lookup speed and end-to-end latency. This is a particularly important consideration for large scale production deployments.
- **Customization:** Options for continued training on private data, or specialization of models for very specific domains. This can improve performance on unique vocabularies.

Anthropic does not offer its own embedding model. One embeddings provider that has a wide variety of options and capabilities encompassing all four of the above considerations is [Voyage AI](#). Voyage AI makes [state of the art](#) embedding models and offers customized models for specific industry domains such as finance and healthcare, or bespoke fine-tuned models for individual customers.

The rest of this guide is for Voyage AI, but we encourage you to assess a variety of embeddings vendors to find the best fit for your specific use case.

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Release Notes (Mar 13, 2024)

Version: User Guides (Cloud)

Release Notes (Mar 13, 2024)

Zilliz Cloud has introduced two major enhancements in its latest release. Firstly, Pipelines now support six state-of-the-art (SOTA) embedding models, which expands your data processing capabilities. The other major enhancement is that the Collection Playground feature has been added to simplify your onboarding experience. With this feature, you can easily perform basic Create, Run, Update, and Delete (CRUD) operations directly from the Zilliz Cloud console, making your data interaction processes more streamlined. You can try these new features today to enjoy a more efficient and effective workflow.

Milvus Compatibility

This release is compatible with **Milvus 2.3.x**.

More Embedding Models

Zilliz Cloud Pipeline now supports six SOTA embedding models to broaden your data processing capabilities.

- **openai/text-embedding-3-small**
Hosted by OpenAI. This highly efficient embedding model has stronger performance over its predecessor text-embedding-ada-002 and balances inference cost and quality.
- **openai/text-embedding-3-large**
Hosted by OpenAI. This is OpenAI's best performing model. Compared to **text-embedding-ada-002**, the MTEB score has increased from 61.0% to 64.6%.
- **voyageai/voyage-2**
Hosted by Voyage AI. This general purpose model excels in retrieving technical documentation containing descriptive text and code. Its more efficient version voyage-lite-02-instruct ranks top on MTEB leaderboard.
- **voyageai/voyage-code-2**
Hosted by Voyage AI. This model is optimized for programming code, providing outstanding quality for retrieval code blocks.
- **voyageai/voyage-large-2**
Hosted by Voyage AI. This is the most powerful generalist embedding model from Voyage AI. It supports 16k context length (4x that of voyage-2) and excels on various types of text including technical and long-context documents. This model is only available when the language is ENGLISH.

Milvus Compatibility
More Embedding Models
Collection Playground

Use Voyage Embeddings on Zilliz Cloud Pipeline

Add A Function to Ingestion Pipeline

Function Type* ⓘ

INDEX_DOC

Divide a text file from Object Storage Service (as pre-signed url) or local file upload into chunks and generate vector embeddings to store in vector database.

PRESERVE

Store the user specified metadata as scalar field in vector database.

Name*

my_index_doc_function

Input

Input Field Name*

doc_url

We support ingesting documents from Object Storage Service (as pre-signed url) or local file upload.

Output

zilliz/bge-base-en-v1.5

Released by BAAI, this state-of-the-art open-source model is hosted on Zilliz Cloud and co-located with vector databases, providing good quality and best network latency. This is the default embedding model.

voyageai/voyage-2

Hosted by Voyage AI. This general purpose model excels in retrieving technical documentation containing descriptive text and code. Its lighter version voyage-lite-02-instruct ranks top on MTEB leaderboard.

voyageai/voyage-code-2

Hosted by Voyage AI. This model is optimized for software code, providing outstanding quality for retrieving software documents and source code. This model is only available when language is ENGLISH.

voyageai/voyage-large-2

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Embedding Model* ⓘ

English

voyageai/voyage-2

Customize Chunking Strategy ☐

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