

OpenAl Embeddings

If you're opening this Notebook on colab, you will probably need to install LlamaIndex 🗽 .

```
%pip install llama-index-embeddings-openai

!pip install llama-index

import os

os.environ["OPENAI_API_KEY"] = "sk-..."

from llama_index.embeddings.openai import OpenAIEmbedding
from llama_index.core import Settings

embed_model = OpenAIEmbedding(embed_batch_size=10)
Settings.embed_model = embed_model
```

Using OpenAl text-embedding-3-large and text-embedding-3-small

Note, you may have to update your openai client: pip install -U openai

```
# get API key and create embeddings
from llama_index.embeddings.openai import OpenAIEmbedding
embed_model = OpenAIEmbedding(model="text-embedding-3-large")
embeddings = embed_model.get_text_embedding(
    "Open AI new Embeddings models is great."
)
```

```
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print(embeddings[:5])
0.017763426527380943, 0.029841400682926178]
                                                          Q
print(len(embeddings))
3072
# get API key and create embeddings
                                                          ſĠ
from llama_index.embeddings.openai import OpenAIEmbedding
embed_model = OpenAIEmbedding(
    model="text-embedding-3-small",
embeddings = embed_model.get_text_embedding(
    "Open AI new Embeddings models is awesome."
print(len(embeddings))
1536
```

Change the dimension of output embeddings

Note: Make sure you have the latest OpenAI client

```
# get API key and create embeddings
from llama_index.embeddings.openai import OpenAIEmbedding

embed_model = OpenAIEmbedding(
    model="text-embedding-3-large",
    dimensions=512,
)

embeddings = embed_model.get_text_embedding(
    "Open AI new Embeddings models with different dimensions is awesome."
)
print(len(embeddings))
```

512