# **[Embeddings](https://platform.openai.com/docs/guides/embeddings/embeddings)**

Learn how to turn text into numbers, unlocking use cases like search.

Embeddings are commonly used for:

* **Search** (where results are ranked by relevance to a query string)
* **Clustering** (where text strings are grouped by similarity)
* **Recommendations** (where items with related text strings are recommended)
* **Anomaly detection** (where outliers with little relatedness are identified)
* **Diversity measurement** (where similarity distributions are analyzed)
* **Classification** (where text strings are classified by their most similar label)

**Api**

from openai import OpenAI

client = OpenAI()

response = client.embeddings.create(

input="Your text string goes here",

model="text-embedding-3-small"

)

print(response.data[0].embedding)

**Response:**

{

"object": "list",

"data": [

{

"object": "embedding",

"index": 0,

"embedding": [

-0.006929283495992422,

-0.005336422007530928,

... (omitted for spacing)

-4.547132266452536e-05,

-0.024047505110502243

],

}

],

"model": "text-embedding-3-small",

"usage": {

"prompt\_tokens": 5,

"total\_tokens": 5

}

}

**Use cases**

<https://www.kaggle.com/datasets/snap/amazon-fine-food-reviews>