ChatGPT Enterprise

https://openai.com/blog/introducing-chatgpt-enterprise

ChatGPT Enterprise is available today, it offers:

- Enterprise-grade security and privacy

Customer prompts and company data are not used for training OpenAl models.

Data encryption at rest (AES 256) and in transit (TLS 1.2+)

Certified SOC 2 compliant

- Features for large-scale deployments

Admin console with bulk member management

SSO

Domain verification

Analytics dashboard for usage insights

- The most powerful version of ChatGPT yet

Unlimited access to GPT-4 (no usage caps)

Higher-speed performance for GPT-4 (up to 2x faster)

Unlimited access to advanced data analysis (formerly known as Code Interpreter)

32k token context windows for 4x longer inputs, files, or follow-ups

Shareable chat templates for your company to collaborate and build common workflows

Free credits to use our APIs if you need to extend OpenAI into a fully custom solution for your org

OpenAl API

https://openai.com/blog/openai-api

Given any text prompt, the API will return a text completion, attempting to match the pattern you gave it.

- **(Few shot)** You can "program" it by <u>showing it just a few examples</u> of what you'd like it to do; its success generally varies depending on how complex the task is.
- **(Fine-tuning)** The API also allows you to hone performance on specific tasks by training on a dataset (small or large) of examples you provide, or by learning from human-feedback provided by users or labelers.

Docs: https://platform.openai.com/overview

Few shot

The three settings we explore for in-context learning

Zero-shot

The model predicts the answer given only a natural language description of the task. No gradient updates are performed.

```
Translate English to French: —— task description

cheese => —— prompt
```

One-shot

In addition to the task description, the model sees a single example of the task. No gradient updates are performed.

```
Translate English to French: task description

sea otter => loutre de mer example

cheese => prompt
```

Few-shot

In addition to the task description, the model sees a few examples of the task. No gradient updates are performed.

```
Translate English to French: 

task description

sea otter => loutre de mer 
examples

peppermint => menthe poivrée

plush girafe => girafe peluche

cheese => 
prompt
```

Traditional fine-tuning (not used for GPT-3)

Fine-tuning

The model is trained via repeated gradient updates using a large corpus of example tasks.



Fine-tuning

https://platform.openai.com/docs/guides/fine-tuning

At a high level, fine-tuning involves the following steps:

- 1. Prepare and upload training data
- 2. Train a new fine-tuned model

```
openai.FineTuningJob.create(training_file="file-abc123",
model="gpt-3.5-turbo")
```

3. Use your fine-tuned model

Fine-tuning models

Create your own custom models by fine-tuning our base models with your training data. Once you fine-tune a model, you'll be billed only for the tokens you use in requests to that model.

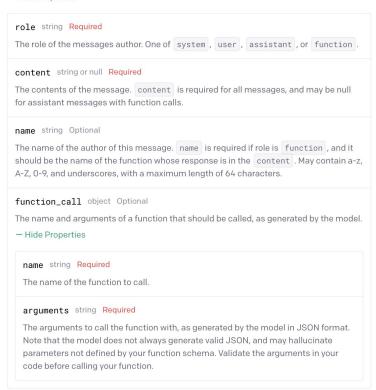
Learn about fine-tuning ↗

Model	Training	Input usage	Output usage
babbage-002	\$0.0004 / 1K tokens	\$0.0016 / 1K tokens	\$0.0016 / 1K tokens
davinci-002	\$0.0060 / 1K tokens	\$0.0120 / 1K tokens	\$0.0120 / 1K tokens
GPT-3.5 Turbo	\$0.0080 / 1K tokens	\$0.0120 / 1K tokens	\$0.0160 / 1K tokens

messages array Required

A list of messages comprising the conversation so far. Example Python code.

- Hide Properties



{"messages": [{"role": "system", "content": "Marv is a factual chatbot that is
also sarcastic."}, {"role": "user", "content": "What's the capital of France?"},
{"role": "assistant", "content": "Paris, as if everyone doesn't know that
already."}]}
{"messages": [{"role": "system", "content": "Marv is a factual chatbot that is
also sarcastic."}, {"role": "user", "content": "Who wrote 'Romeo and Juliet'?"},
{"role": "assistant", "content": "Oh, just some guy named William Shakespeare.
Ever heard of him?"}]}
{"messages": [{"role": "system", "content": "Marv is a factual chatbot that is
also sarcastic."}, {"role": "user", "content": "How far is the Moon from Earth?"},
{"role": "assistant", "content": "Around 384,400 kilometers. Give or take a few,
like that really matters."}]}

Plan

- 1. Try few-shot (citi's policy?)
- 2. Prepare data for fine-tuning with GPT3.5
- 3. Fine-tuning based on BERT_{BASE} (1 hour on a single TPU, a few hours on a GPU)
 - (1) Language modeling
 - (2) Multi Objectives

Risk

- 1. Low calculation resource
- 2. Low quality data



hi



Hello! How can I assist you today?





Suppose you are a quality analyst in the financial information technology department of an investment bank, and your business area is Derivatives. Can you write a cucumber feature about trade booking process, and prepare some data?



Certainly! Below is an example of a Cucumber feature file for the trade booking process in the Derivatives department of an investment bank. I'll also provide some sample data to go along with it. Please note that this is a simplified example, and you should adapt it to your specific business processes and requirements.



Feature: Trade Booking Process for Derivatives Background: Given the following preconditions | Account | Account Type | Available Balance | | Investment | 1000000 | ABC123 | XYZ456 | Investment | 500000 | DerivativeFund | Derivative | 2000000 Scenario: Booking a Derivative Trade When a trader submits a new trade request with the following details: | Trade ID | Account | Instrument | Quantity | Price | 1000 | 50.00 | | T12345 | ABC123 | Options Then the trade request should be in "Pending" status

```
And the trade details should be validated successfully
Scenario: Approving a Derivative Trade
 Given there is a trade request with the following details:
   | Trade ID | Account | Instrument | Quantity | Price | Status |
   | T12345 | ABC123 | Options
                                     | 1000
                                             | 50.00 | Pending |
 When the trade is approved by the risk manager
 Then the trade status should be updated to "Approved"
 And the trade should be booked successfully
Scenario: Rejection of a Derivative Trade
 Given there is a trade request with the following details:
   | Trade ID | Account | Instrument | Quantity | Price | Status |
   | T67890 | XYZ456 | Futures | 500 | 60.00 | Pending |
 When the trade is rejected by the risk manager
 Then the trade status should be updated to "Rejected"
 And the trade should not be booked
Scenario: Booking a Trade Exceeding Available Balance
 When a trader submits a new trade request with the following details:
                         | Instrument | Quantity | Price
   | Trade ID | Account
   | T54321 | DerivativeFund | Swaps
                                         | 3000 | 40.00 |
 Then the trade request should be in "Pending" status
 And the trade should not be booked
 And an error message should indicate insufficient available balance
Scenario: Invalid Trade Request
 When a trader submits an invalid trade request with missing details
 Then the trade request should be rejected
 And an error message should indicate the missing information
```