day5

January 6, 2025

1 A full business solution

1.1 Now we will take our project from Day 1 to the next level

1.1.1 BUSINESS CHALLENGE:

Create a product that builds a Brochure for a company to be used for prospective clients, investors and potential recruits.

We will be provided a company name and their primary website.

See the end of this notebook for examples of real-world business applications.

And remember: I'm always available if you have problems or ideas! Please do reach out.

```
# imports
# If these fail, please check you're running from an 'activated' environment
with (llms) in the command prompt

import os
import requests
import json
from typing import List
from dotenv import load_dotenv
from bs4 import BeautifulSoup
from IPython.display import Markdown, display, update_display
from openai import OpenAI
```

```
openai = OpenAI()
    API key looks good so far
[3]: # A class to represent a Webpage
     # Some websites need you to use proper headers when fetching them:
     headers = {
      "User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 ∪
     ⇔(KHTML, like Gecko) Chrome/117.0.0.0 Safari/537.36"
     }
     class Website:
         A utility class to represent a Website that we have scraped, now with links
         def __init__(self, url):
             self.url = url
             response = requests.get(url, headers=headers)
             self.body = response.content
             soup = BeautifulSoup(self.body, 'html.parser')
             self.title = soup.title.string if soup.title else "No title found"
             if soup.body:
                 for irrelevant in soup.body(["script", "style", "img", "input"]):
                     irrelevant.decompose()
                 self.text = soup.body.get_text(separator="\n", strip=True)
             else:
                 self.text = ""
             links = [link.get('href') for link in soup.find_all('a')]
             self.links = [link for link in links if link]
         def get_contents(self):
             return f"Webpage Title:\n{self.title}\nWebpage Contents:\n{self.
      →text}\n\n"
[4]: ed = Website("https://edwarddonner.com")
     ed.links
[4]: ['https://edwarddonner.com/',
      'https://edwarddonner.com/outsmart/',
      'https://edwarddonner.com/about-me-and-about-nebula/',
      'https://edwarddonner.com/posts/',
      'https://edwarddonner.com/',
```

'https://www.prnewswire.com/news-releases/wynden-stark-group-acquires-nyc-

'https://news.ycombinator.com',

'https://nebula.io/?utm_source=ed&utm_medium=referral',

venture-backed-tech-startup-untapt-301269512.html',

```
'https://patents.google.com/patent/US20210049536A1/',
 'https://www.linkedin.com/in/eddonner/',
 'https://edwarddonner.com/2024/12/21/11m-resources-superdatascience/',
 'https://edwarddonner.com/2024/12/21/llm-resources-superdatascience/',
 'https://edwarddonner.com/2024/11/13/llm-engineering-resources/',
 'https://edwarddonner.com/2024/11/13/llm-engineering-resources/',
 'https://edwarddonner.com/2024/10/16/from-software-engineer-to-ai-data-
scientist-resources/',
 'https://edwarddonner.com/2024/10/16/from-software-engineer-to-ai-data-
scientist-resources/',
 'https://edwarddonner.com/2024/08/06/outsmart/',
 'https://edwarddonner.com/2024/08/06/outsmart/',
 'https://edwarddonner.com/',
 'https://edwarddonner.com/outsmart/',
 'https://edwarddonner.com/about-me-and-about-nebula/',
 'https://edwarddonner.com/posts/',
 'mailto:hello@mygroovydomain.com',
 'https://www.linkedin.com/in/eddonner/',
 'https://twitter.com/edwarddonner',
 'https://www.facebook.com/edward.donner.52']
```

1.2 First step: Have GPT-40-mini figure out which links are relevant

1.2.1 Use a call to gpt-4o-mini to read the links on a webpage, and respond in structured JSON.

It should decide which links are relevant, and replace relative links such as "/about" with "https://company.com/about".

We will use "one shot prompting" in which we provide an example of how it should respond in the prompt.

This is an excellent use case for an LLM, because it requires nuanced understanding. Imagine trying to code this without LLMs by parsing and analyzing the webpage - it would be very hard!

Sidenote: there is a more advanced technique called "Structured Outputs" in which we require the model to respond according to a spec. We cover this technique in Week 8 during our autonomous Agentic AI project.

```
[5]: link_system_prompt = "You are provided with a list of links found on a webpage.u

\[
\( \text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti
```

```
]
}
"""
```

[6]: print(link_system_prompt)

You are provided with a list of links found on a webpage. You are able to decide which of the links would be most relevant to include in a brochure about the company, such as links to an About page, or a Company page, or Careers/Jobs pages.

[8]: print(get_links_user_prompt(ed))

Here is the list of links on the website of https://edwarddonner.com - please decide which of these are relevant web links for a brochure about the company, respond with the full https URL in JSON format. Do not include Terms of Service, Privacy, email links.

Links (some might be relative links):
https://edwarddonner.com/
https://edwarddonner.com/outsmart/
https://edwarddonner.com/about-me-and-about-nebula/
https://edwarddonner.com/posts/
https://edwarddonner.com/
https://news.ycombinator.com
https://nebula.io/?utm_source=ed&utm_medium=referral
https://www.prnewswire.com/news-releases/wynden-stark-group-acquires-nyc-venture-backed-tech-startup-untapt-301269512.html
https://patents.google.com/patent/US20210049536A1/
https://www.linkedin.com/in/eddonner/
https://edwarddonner.com/2024/12/21/llm-resources-superdatascience/

```
https://edwarddonner.com/2024/12/21/11m-resources-superdatascience/
     https://edwarddonner.com/2024/11/13/llm-engineering-resources/
     https://edwarddonner.com/2024/11/13/llm-engineering-resources/
     https://edwarddonner.com/2024/10/16/from-software-engineer-to-ai-data-scientist-
     resources/
     https://edwarddonner.com/2024/10/16/from-software-engineer-to-ai-data-scientist-
     resources/
     https://edwarddonner.com/2024/08/06/outsmart/
     https://edwarddonner.com/2024/08/06/outsmart/
     https://edwarddonner.com/
     https://edwarddonner.com/outsmart/
     https://edwarddonner.com/about-me-and-about-nebula/
     https://edwarddonner.com/posts/
     mailto:hello@mygroovydomain.com
     https://www.linkedin.com/in/eddonner/
     https://twitter.com/edwarddonner
     https://www.facebook.com/edward.donner.52
 [9]: def get_links(url):
          website = Website(url)
          response = openai.chat.completions.create(
              model=MODEL,
              messages=[
                  {"role": "system", "content": link_system_prompt},
                  {"role": "user", "content": get_links_user_prompt(website)}
            ],
              response_format={"type": "json_object"}
          result = response.choices[0].message.content
          return json.loads(result)
[10]: # Anthropic has made their site harder to scrape, so I'm using HuggingFace..
      huggingface = Website("https://huggingface.co")
      huggingface.links
[10]: ['/',
       '/models',
       '/datasets',
       '/spaces',
       '/posts',
       '/docs',
       '/enterprise',
       '/pricing',
       '/login',
       '/join',
       '/blog/smolagents',
```

```
'/deepseek-ai/DeepSeek-V3',
'/PowerInfer/SmallThinker-3B-Preview',
'/deepseek-ai/DeepSeek-V3-Base',
'/black-forest-labs/FLUX.1-dev',
'/hexgrad/Kokoro-82M',
'/models',
'/spaces/osanseviero/gemini-coder',
'/spaces/JeffreyXiang/TRELLIS',
'/spaces/lllyasviel/iclight-v2',
'/spaces/Kwai-Kolors/Kolors-Virtual-Try-On',
'/spaces/akhaliq/anychat',
'/spaces',
'/datasets/agibot-world/AgiBotWorld-Alpha',
'/datasets/fka/awesome-chatgpt-prompts',
'/datasets/PowerInfer/QWQ-LONGCOT-500K',
'/datasets/cfahlgren1/react-code-instructions',
'/datasets/OpenLeecher/lmsys_chat_1m_clean',
'/datasets',
'/join',
'/pricing#endpoints',
'/pricing#spaces',
'/pricing',
'/enterprise',
'/enterprise',
'/enterprise',
'/enterprise',
'/enterprise',
'/enterprise',
'/enterprise',
'/allenai',
'/facebook',
'/amazon',
'/google',
'/Intel',
'/microsoft',
'/grammarly',
'/Writer',
'/docs/transformers',
'/docs/diffusers',
'/docs/safetensors',
'/docs/huggingface_hub',
'/docs/tokenizers',
'/docs/peft',
'/docs/transformers.js',
'/docs/timm',
'/docs/trl',
'/docs/datasets',
```

```
'/docs/text-generation-inference',
       '/docs/accelerate',
       '/models',
       '/datasets',
       '/spaces',
       '/tasks',
       'https://ui.endpoints.huggingface.co',
       '/chat',
       '/huggingface',
       '/brand',
       '/terms-of-service',
       '/privacy',
       'https://apply.workable.com/huggingface/',
       'mailto:press@huggingface.co',
       '/learn',
       '/docs',
       '/blog',
       'https://discuss.huggingface.co',
       'https://status.huggingface.co/',
       'https://github.com/huggingface',
       'https://twitter.com/huggingface',
       'https://www.linkedin.com/company/huggingface/',
       '/join/discord']
[11]: get_links("https://huggingface.co")
[11]: {'links': [{'type': 'about page', 'url': 'https://huggingface.co/huggingface'},
        {'type': 'careers page', 'url': 'https://apply.workable.com/huggingface/'},
        {'type': 'enterprise page', 'url': 'https://huggingface.co/enterprise'},
        {'type': 'blog page', 'url': 'https://huggingface.co/blog'},
        {'type': 'models page', 'url': 'https://huggingface.co/models'},
        {'type': 'datasets page', 'url': 'https://huggingface.co/datasets'},
        {'type': 'spaces page', 'url': 'https://huggingface.co/spaces'},
        {'type': 'contact page', 'url': 'https://discuss.huggingface.co'},
        {'type': 'GitHub page', 'url': 'https://github.com/huggingface'},
        {'type': 'LinkedIn page',
         'url': 'https://www.linkedin.com/company/huggingface/'}]}
     1.3 Second step: make the brochure!
```

Assemble all the details into another prompt to GPT4-o

```
[12]: def get_all_details(url):
    result = "Landing page:\n"
    result += Website(url).get_contents()
    links = get_links(url)
    print("Found links:", links)
    for link in links["links"]:
```

```
result += f"\n\n{link['type']}\n"
result += Website(link["url"]).get_contents()
return result
```

```
[13]: print(get_all_details("https://huggingface.co"))
     Found links: {'links': [{'type': 'about page', 'url':
     'https://huggingface.co/huggingface'}, {'type': 'careers page', 'url':
     'https://apply.workable.com/huggingface/'}, {'type': 'blog', 'url':
     'https://huggingface.co/blog'}, {'type': 'enterprise page', 'url':
     'https://huggingface.co/enterprise'}, {'type': 'pricing page', 'url':
     'https://huggingface.co/pricing'}]}
     Landing page:
     Webpage Title:
     Hugging Face - The AI community building the future.
     Webpage Contents:
     Hugging Face
     Models
     Datasets
     Spaces
     Posts
     Docs
     Enterprise
     Pricing
     Log In
     Sign Up
     NEW
     smolagents - a smol library to build great agents
     Use models from the HF Hub in LM Studio
     Use Ollama with GGUF Models from the HF Hub
     The AI community building the future.
     The platform where the machine learning community collaborates on models,
     datasets, and applications.
     Trending on
     this week
     Models
     deepseek-ai/DeepSeek-V3
     Updated
     8 days ago
     71.7k
     1.32k
     PowerInfer/SmallThinker-3B-Preview
     Updated
     about 11 hours ago
     6.37k
```

262 deepseek-ai/DeepSeek-V3-Base Updated 8 days ago 8.36k 1.16k black-forest-labs/FLUX.1-dev Updated Aug 16, 2024 1.17M 7.77k hexgrad/Kokoro-82M Updated 12 minutes ago 986 241 Browse 400k+ models Spaces Running 534 Gemini Coder Running on Zero 2.59k TRELLIS Scalable and Versatile 3D Generation from images Running on Zero 1.33k IC Light V2 Running CPU Upgrade 6.57k

Kolors Virtual Try-On

```
Running
on
CPU Upgrade
1.2k
Anychat
Browse 150k+ applications
Datasets
agibot-world/AgiBotWorld-Alpha
Updated
4 days ago
6.75k
144
fka/awesome-chatgpt-prompts
Updated
about 21 hours ago
5.63k
6.73k
PowerInfer/QWQ-LONGCOT-500K
Updated
11 days ago
437
68
cfahlgren1/react-code-instructions
Updated
8 minutes ago
301
62
OpenLeecher/lmsys_chat_1m_clean
Updated
6 days ago
381
39
Browse 100k+ datasets
The Home of Machine Learning
Create, discover and collaborate on ML better.
The collaboration platform
Host and collaborate on unlimited public models, datasets and applications.
```

Move faster With the HF Open source stack. Explore all modalities Text, image, video, audio or even 3D. Build your portfolio Share your work with the world and build your ML profile. Sign Up Accelerate your ML We provide paid Compute and Enterprise solutions. Compute Deploy on optimized Inference Endpoints or update your Spaces applications to a GPU in a few clicks. View pricing Starting at \$0.60/hour for GPU Enterprise Give your team the most advanced platform to build AI with enterprise-grade security, access controls and dedicated support. Getting started Starting at \$20/user/month Single Sign-On Regions Priority Support Audit Logs Resource Groups Private Datasets Viewer More than 50,000 organizations are using Hugging Face Ai2 Enterprise non-profit 378 models 1.84k followers AI at Meta Enterprise company 2.06k models 4.03k followers

11

Amazon Web Services

company

21 models

```
2.5k followers
Google
company
913 models
6.25k followers
Intel
company
217 models
2.1k followers
Microsoft
company
351 models
6.56k followers
Grammarly
company
10 models
106 followers
Writer
Enterprise
company
17 models
191 followers
Our Open Source
We are building the foundation of ML tooling with the community.
Transformers
State-of-the-art ML for Pytorch, TensorFlow, and JAX.
Diffusers
26,987
State-of-the-art diffusion models for image and audio generation in PyTorch.
Safetensors
2,983
Simple, safe way to store and distribute neural networks weights safely and
quickly.
Hub Python Library
2,205
```

Client library for the HF Hub: manage repositories from your Python runtime.

Tokenizers

9,227

Fast tokenizers, optimized for both research and production.

PEFT

16,887

Parameter efficient finetuning methods for large models.

Transformers. js

12,520

State-of-the-art Machine Learning for the web. Run Transformers directly in your browser, with no need for a server.

timm

32,811

State-of-the-art computer vision models, layers, optimizers,

training/evaluation, and utilities.

TRL

10,514

Train transformer language models with reinforcement learning.

Datasets

19,436

Access and share datasets for computer vision, audio, and NLP tasks.

Text Generation Inference

9,560

Toolkit to serve Large Language Models.

Accelerate

8,134

Easily train and use PyTorch models with multi-GPU, TPU, mixed-precision.

System theme

Website

Models

Datasets

Spaces

Tasks

Inference Endpoints

HuggingChat

Company

About

Brand assets

Terms of service

Privacy

.Jobs

Press

Resources

Learn

Documentation

Blog

Forum

Service Status

Social

GitHub Twitter LinkedIn Discord

a dataset

about page Webpage Title: huggingface (Hugging Face) Webpage Contents: Hugging Face Models Datasets Spaces Posts Docs Enterprise Pricing Log In Sign Up Hugging Face Enterprise company Verified https://huggingface.co huggingface huggingface Activity Feed Follow 10,700 AI & ML interests The AI community building the future. Recent Activity nielsr updated a dataset about 10 hours ago huggingface/community-science-merged FL33TW00D-HF new activity about 11 hours ago huggingface/documentation-images: pos-enc-update-v2 FL33TW00D-HF updated

```
about 11 hours ago
huggingface/documentation-images
View all activity
Team members
223
+189
+176
+155
+145
+125
Organization Card
Community
About org cards
 Hi!
We are on a mission to democratize
good
machine learning, one commit at a time.
If that sounds like something you should be doing, why don't you
join us
For press enquiries, you can
 contact our team here
Collections
DistilBERT release
Original DistilBERT model, checkpoints obtained from using teacher-student
learning from the original BERT checkpoints.
distilbert/distilbert-base-cased
Fill-Mask
Updated
May 6, 2024
277k
36
distilbert/distilbert-base-uncased
Fill-Mask
Updated
May 6, 2024
10.8M
593
distilbert/distilbert-base-multilingual-cased
```

```
Fill-Mask
Updated
May 6, 2024
374k
156
distilbert/distilbert-base-uncased-finetuned-sst-2-english
Text Classification
Updated
Dec 19, 2023
6.52M
660
spaces
23
Sort:
                Recently updated
pinned
Running
55
Number Tokenization Blog
Running
497
Open Source Ai Year In Review 2024
What happened in open-source AI this year, and what's next?
Running
44
Inference Playground
Running
203
paper-central
Running
on
TPU v5e
Keras Chatbot Battle
Running
```

101

```
Modelcard Creator
Expand 23
                                                         spaces
models
18
Sort:
                Recently updated
huggingface/test-gating-group-2
Updated
20 days ago
huggingface/test-gating-group-1
Updated
20 days ago
huggingface/timesfm-tourism-monthly
Updated
28 days ago
34
1
huggingface/CodeBERTa-language-id
Text Classification
Updated
Mar 29, 2024
1.89k
54
huggingface/falcon-40b-gptq
Text Generation
Updated
Jun 14, 2023
19
huggingface/autoformer-tourism-monthly
Updated
May 24, 2023
1.19k
huggingface/distilbert-base-uncased-finetuned-mnli
```

Text Classification

```
Updated
Mar 22, 2023
679
2
huggingface/informer-tourism-monthly
Updated
Feb 24, 2023
1.05k
huggingface/time-series-transformer-tourism-monthly
Updated
Feb 23, 2023
1.52k
18
huggingface/the-no-branch-repo
Text-to-Image
Updated
Feb 10, 2023
70
3
Expand 18
                                                         models
datasets
32
Sort:
                Recently updated
huggingface/community-science-merged
Viewer
Updated
about 10 hours ago
5.14k
171
1
huggingface/documentation-images
```

```
Viewer
Updated
about 11 hours ago
50
2.15M
45
huggingface/paper-central-data
Viewer
Updated
3 days ago
124k
664
8
huggingface/transformers-metadata
Viewer
Updated
13 days ago
1.52k
304
15
huggingface/community-science-paper-v2
Viewer
Updated
15 days ago
5.03k
282
huggingface/diffusers-metadata
Viewer
Updated
```

19 days ago

```
62
384
huggingface/policy-docs
Updated
19 days ago
891
6
huggingface/my-distiset-3f5a230e
Updated
Nov 21, 2024
huggingface/cookbook-images
Viewer
Updated
Nov 14, 2024
1
31.4k
6
huggingface/vllm-metadata
Updated
Oct 8, 2024
10
Expand 32
                                                         datasets
System theme
Company
TOS
Privacy
About
Jobs
Website
Models
Datasets
Spaces
```

Pricing Docs

```
careers page
Webpage Title:
Hugging Face - Current Openings
Webpage Contents:
blog
Webpage Title:
Hugging Face - Blog
Webpage Contents:
Hugging Face
Models
Datasets
Spaces
Posts
Docs
Enterprise
Pricing
Log In
Sign Up
Blog, Articles, and discussions
New Article
Everything
community
guide
open source collab
partnerships
research
NLP
Audio
CV
RL
ethics
Diffusion
Game Development
RLHF
Leaderboard
Case Studies
Introducing smolagents: simple agents that write actions in code.
Ву
m-ric
December 31, 2024
```

```
231
Community Articles
view all
**Fine-tune SmolLM's on custom synthetic data**
prithivMLmods
1 day ago
10
Building Effective Agents with Anthropic's Best Practices and smolagents
Sri-Vigneshwar-DJ
2 days ago
AI in 2025: A Combinatorial Explosion of Possibilities, but NOT AGI
Kseniase
2 days ago
1
Superposition in Transformers: A Novel Way of Building Mixture of Experts
By
BenChaliah
2 days ago
**Building a System That Can Build Systems: Toward a Self-Replicating Ecosystem
Framework**
adityagaharawar
3 days ago
Fine-tune a SmolLM on domain-specific synthetic data from a LLM
davidberenstein1957
3 days ago
10
 ScreenSpot-Pro: GUI Grounding for Professional High-Resolution Computer Use
Ву
```

```
Ziyang
3 days ago
9
Process Reinforcement through Implicit Rewards
ganqu
4 days ago
  LLM Comparison/Test: DeepSeek-V3, QVQ-72B-Preview, Falcon3 10B, Llama 3.3
70B, Nemotron 70B in my updated MMLU-Pro CS benchmark
wolfram
4 days ago
Finetuning Falcon 7b in a hybrid distributed fashion
By
Neo111x
7 days ago
4
Debate Championship for LLMs
as-cle-bert
7 days ago
Fine-tune ModernBERT for text classification using synthetic data
davidberenstein1957
7 days ago
19
#2: Your Go-To Vocabulary to Navigate the World of AI Agents and Agentic
Workflows
Βv
Kseniase
10 days ago
```

```
8
Unlocking the Power of Reasoning: Introducing CriticalThinker-LLaMA-3.1-8B-GGUF
and Its Groundbreaking Dataset
Ву
theeseus-ai
10 days ago
#1: Open-endedness and AI Agents - A Path from Generative to Creative AI?
Kseniase
12 days ago
Deriving DPO's Loss
hba123
13 days ago
24
#81: Key AI Concepts to Follow in 2025
By
Kseniase
14 days ago
19
Introducing KaibanJS v0.13.0: Structured Output for Smarter Workflows
darielnoel
14 days ago
FineWeb2-C: Help Build Better Language Models in Your Language
davanstrien
14 days ago
11
Tags generation dataset
zino36
17 days ago
```

```
3
Visualize and understand GPU memory in PyTorch
By
qgallouedec
December 24, 2024
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for $20/user/month with your Hub organization
Give your organization the most advanced platform to build AI with enterprise-
grade security, access controls,
                        dedicated support and more.
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Connect securely to your identity provider with SSO integration.
Select, manage, and audit the location of your repository data.
Audit Logs
Stay in control with comprehensive logs that report on actions taken.
Resource Groups
```

Accurately manage access to repositories with granular access control.

Token Management

Centralized token control and custom approval policies for organization access. Analytics

Track and analyze repository usage data in a single dashboard.

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Increase scalability and performance with more compute options like ZeroGPU for Spaces.

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Enterprise

company

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244 models

.

8.77k followers

Nerdy Face

Enterprise

company

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1 model

•

269 followers

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Enterprise

company

•

17 models

•

427 followers

Writer

Enterprise

company

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17 models

•

191 followers Fidelity Investments Enterprise company

•

118 followers Jusbrasil Enterprise company

•

78 followers Mistral AI_ Enterprise company

•

21 models

•

3.73k followers IBM Granite Enterprise company

•

70 models

•

777 followers Virtusa Corporation Enterprise company

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37 followers Widn AI Enterprise company 28 followers Adyen Enterprise company 36 followers Meta Llama Enterprise company 57 models 17.7k followers Orange Enterprise company 4 models 152 followers ArmEnterprise company 120 followers Bloomberg Enterprise company 2 models 137 followers Deutsche Telekom AG Enterprise company 7 models 114 followers Lightricks Enterprise company 3 models

448 followers

Technology Innovation Institute

Enterprise company

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64 models

•

1.1k followers Chegg Inc Enterprise company

•

78 followers Liberty Mutual Enterprise company

•

42 followers HiddenLayer Enterprise company

•

49 followers Kakao Corp. Enterprise company

•

42 followers Gsk-tech Enterprise company

.

33 followers BCG X Enterprise company

.

29 followers Qualcomm Enterprise company

•

153 models

•

378 followers Shopify Enterprise company

•

377 followers

Together Enterprise company

28 models

474 followers ServiceNow-AI Enterprise company

111 followers Toyota Research Institute Enterprise company

8 models

93 followers H2O.ai Enterprise company

71 models

365 followers AI at Meta Enterprise company

2.06k models

4.03k followers Aledade Inc Enterprise company

54 followers Stability AI Enterprise company

96 models

10.8k followers Nutanix

Enterprise company

•

246 models

•

40 followers

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Enterprise

company

•

130 models

•

296 followers

Gretel.ai

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company

•

8 models

•

76 followers

Mercedes-Benz AG

Enterprise

company

•

84 followers

HOVER External

Enterprise

company

.

26 followers

BRIA AI

Enterprise

company

•

28 models

•

1.51k followers

Compliance & Certifications

GDPR Compliant

SOC 2 Type 2

System theme

Website

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Datasets

Spaces

Tasks

Inference Endpoints

 ${\tt HuggingChat}$

 ${\tt Company}$

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Social

GitHub

Twitter

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Discord

pricing page

Webpage Title:

Hugging Face - Pricing

Webpage Contents:

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Models

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Create unlimited orgs with no member limits

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Community support

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Precise actions reviews with Audit logs

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Centralized token control and approval

Dataset Viewer for private datasets

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\$20

per user per month

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7 optimized hardware available

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/hour

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\$0.032

/hour

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Learning.

```
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Create with ML
Packed with ML features, like model eval, dataset viewer and much more.
Collaborate
Git based and designed for collaboration at its core.
Play and learn
Learn by experimenting and sharing with our awesome community.
Build your ML portfolio
Share your work with the world and build your own ML profile.
Spaces Hardware
Starting at $0
Spaces are one of the most popular ways to share ML applications and demos with
the world.
Upgrade your Spaces with our selection of custom on-demand hardware:
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Name
CPU
Memory
Accelerator
VRAM
Hourly price
CPU Basic
2 vCPU
16 GB
FREE
CPU Upgrade
8 vCPU
32 GB
$0.03
Nvidia T4 - small
4 vCPU
15 GB
Nvidia T4
16 GB
$0.40
Nvidia T4 - medium
8 vCPU
30 GB
Nvidia T4
```

16 GB

\$0.60

1x Nvidia L4

8 vCPU

30 GB

Nvidia L4

24 GB

\$0.80

4x Nvidia L4

48 vCPU

186 GB

Nvidia L4

96 GB

\$3.80

1x Nvidia L40S

8 vCPU

62 GB

Nvidia L4

48 GB

\$1.80

4x Nvidia L40S

48 vCPU

382 GB

Nvidia L4

192 GB

\$8.30

8x Nvidia L40S

192 vCPU

1534 GB

Nvidia L4

384 GB

\$23.50

Nvidia A10G - small

4 vCPU

15 GB

Nvidia A10G

24 GB

\$1.00

Nvidia A10G - large

12 vCPU

46 GB

Nvidia A10G

24 GB

\$1.50

2x Nvidia A10G - large

24 vCPU

92 GB

Nvidia A10G

48 GB

```
$3.00
4x Nvidia A10G - large
48 vCPU
184 GB
Nvidia A10G
96 GB
$5.00
Nvidia A100 - large
12 vCPU
142 GB
Nvidia A100
80 GB
$4.00
TPU v5e 1x1
22 vCPU
44 GB
Google TPU v5e
16 GB
$1.20
TPU v5e 2x2
110 vCPU
186 GB
Google TPU v5e
64 GB
$4.75
TPU v5e 2x4
220 vCPU
380 GB
Google TPU v5e
128 GB
$9.50
Custom
on demand
on demand
on demand
on demand
on demand
Spaces Persistent Storage
All Spaces get ephemeral storage for free but you can upgrade and add persistent
storage at any time.
Name
Storage
Monthly price
Small
20 GB
$5
Medium
150 GB
```

```
$25
Large
1 TB
$100
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Inference Endpoints (dedicated) offers a secure production solution to easily
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                                        and autoscaling infrastructure, right
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instances
Provider
Architecture
vCPUs
Memory
Hourly rate
Intel Sapphire Rapids
2GB
$0.03
2
4GB
$0.07
8GB
$0.13
16GB
$0.27
azure
Intel Xeon
1
2GB
$0.06
4GB
$0.12
8GB
$0.24
16GB
```

\$0.48

```
gcp
Intel Sapphire Rapids
1
2GB
$0.05
4GB
$0.10
8GB
$0.20
8
16GB
$0.40
Accelerator
instances
Provider
Architecture
Topology
Accelerator Memory
Hourly rate
aws
Inf2
                                         Neuron
x1
14.5GB
$0.75
x12
760GB
$12.00
gcp
TPU
                                         v5e
1x1
16GB
$1.20
2x2
64GB
$4.75
2x4
128GB
$9.50
GPU
instances
Provider
Architecture
GPUs
```

GPU Memory

Hourly rate

aws

NVIDIA T4

1

14GB

\$0.50

4

56GB

\$3.00

aws

NVIDIA L4

1

24GB

\$0.80

4

96GB

\$3.80

aws

NVIDIA L40S

1

48GB

\$1.80

4

192GB

\$8.30

8

384GB

\$23.50

aws

NVIDIA A10G

1

24GB

\$1.00

4

96GB

\$5.00

aws

NVIDIA A100

1

80GB

\$4.00

2

160GB

\$8.00

4

320GB

\$16.00

8

```
640GB
$32.00
gcp
NVIDIA T4
1
16GB
$0.50
gcp
NVIDIA L4
24GB
$0.70
96GB
$3.80
gcp
NVIDIA A100
1
80GB
$3.60
2
160GB
$7.20
320GB
$14.40
640GB
$28.80
gcp
NVIDIA H100
1
80GB
$10.00
2
160GB
$20.00
320GB
$40.00
640GB
$80.00
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A monthly subscription to access powerful features.
Get Pro
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(\$9/month)

ZeroGPU

: Get 5x usage quota and highest GPU queue priority

Spaces Hosting

: Create ZeroGPU Spaces with A100 hardware

Spaces Dev Mode

: Fast iterations via SSH/VS Code for Spaces

Dataset Viewer

: Activate it on private datasets

Inference API

: Get x20 higher rate limits on Serverless API

Blog Articles

: Publish articles to the Hugging Face blog

Social Posts

: Share short updates with the community

Features Preview

: Get early access to upcoming

features

PRO

Badge

:

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 ${\tt HuggingChat}$

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GitHub

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LinkedIn

Discord

```
[25]: system_prompt = "You are an assistant that analyzes the contents of several...
      ⇔relevant pages from a company website \
      and creates a short brochure about the company for prospective customers,
       ⇒investors and recruits. Respond in markdown.\
      Include details of company culture, customers and careers/jobs if you have the ...
       ⇔information."
      # Or uncomment the lines below for a more humorous brochure - this demonstrates,
      ⇔how easy it is to incorporate 'tone':
      # system prompt = "You are an assistant that analyzes the contents of several"
       →relevant pages from a company website \
      # and creates a short humorous, entertaining, jokey brochure about the company
       →for prospective customers, investors and recruits. Respond in markdown.\
      # Include details of company culture, customers and careers/jobs if you have
       ⇔the information."
[15]: def get_brochure_user_prompt(company_name, url):
          user_prompt = f"You are looking at a company called: {company_name}\n"
          user_prompt += f"Here are the contents of its landing page and other ⊔
       orelevant pages; use this information to build a short brochure of the
       ⇔company in markdown.\n"
          user_prompt += get_all_details(url)
          user_prompt = user_prompt[:5_000] # Truncate if more than 5,000 characters
          return user_prompt
[16]: get_brochure_user_prompt("HuggingFace", "https://huggingface.co")
     Found links: {'links': [{'type': 'about page', 'url':
     'https://huggingface.co/about'}, {'type': 'careers page', 'url':
     'https://apply.workable.com/huggingface/'}, {'type': 'enterprise page', 'url':
     'https://huggingface.co/enterprise'}, {'type': 'pricing page', 'url':
     'https://huggingface.co/pricing'}, {'type': 'blog page', 'url':
     'https://huggingface.co/blog'}, {'type': 'contact page', 'url':
     'https://huggingface.co/join'}]}
[16]: "You are looking at a company called: HuggingFace\nHere are the contents of its
      landing page and other relevant pages; use this information to build a short
      brochure of the company in markdown.\nLanding page:\nWebpage Title:\nHugging
     Face - The AI community building the future.\nWebpage Contents:\nHugging
     Face\nModels\nDatasets\nSpaces\nPosts\nDocs\nEnterprise\nPricing\nLog In\nSign
     Up\nNEW\nsmolagents - a smol library to build great agents\nUse models from the
     HF Hub in LM Studio\nUse Ollama with GGUF Models from the HF Hub\nThe AI
      community building the future. \nThe platform where the machine learning
      community collaborates on models, datasets, and applications.\nTrending on\nthis
```

```
week\nModels\ndeepseek-ai/DeepSeek-V3\nUpdated\n8 days
ago\n \cdot \n71.7k\n \cdot \n1.32k\nPowerInfer/SmallThinker-3B-Preview\nUpdated\nabout 11
hours ago\n•\n6.37k\n•\n262\ndeepseek-ai/DeepSeek-V3-Base\nUpdated\n8 days
ago\n•\n8.36k\n•\n1.16k\nblack-forest-labs/FLUX.1-dev\nUpdated\nAug 16,
2024\n \cdot \n1.17M\n \cdot \n7.77k\nhexgrad/Kokoro-82M\nUpdated\n12 minutes
ago\n•\n986\n•\n241\nBrowse 400k+ models\nSpaces\nRunning\n534\n \nGemini
Coder\nRunning\non\nZero\n2.59k\n\nTRELLIS\nScalable and Versatile 3D
Generation from images\nRunning\non\nZero\n1.33k\n \nIC Light
V2\nRunning\non\nCPU Upgrade\n6.57k\n \nKolors Virtual Try-On\nRunning\non\nCPU
Upgrade\n1.2k\n \nAnychat\nBrowse 150k+ applications\nDatasets\nagibot-
world/AgiBotWorld-Alpha\nUpdated\n4 days ago\n•\n6.75k\n•\n144\nfka/awesome-
chatgpt-prompts\nUpdated\nabout 21 hours
ago\n•\n5.63k\n•\n6.73k\nPowerInfer/QWQ-LONGCOT-500K\nUpdated\n11 days
ago\n•\n437\n•\n68\ncfahlgren1/react-code-instructions\nUpdated\n8 minutes
ago\n•\n301\n•\n62\n0penLeecher/lmsys_chat_1m_clean\nUpdated\n6 days
ago\n•\n381\n•\n39\nBrowse 100k+ datasets\nThe Home of Machine Learning\nCreate,
discover and collaborate on ML better.\nThe collaboration platform\nHost and
collaborate on unlimited public models, datasets and applications.\nMove
faster\nWith the HF Open source stack.\nExplore all modalities\nText, image,
video, audio or even 3D.\nBuild your portfolio\nShare your work with the world
and build your ML profile.\nSign Up\nAccelerate your ML\nWe provide paid Compute
and Enterprise solutions.\nCompute\nDeploy on optimized\nInference Endpoints\nor
update your\nSpaces applications\nto a GPU in a few clicks.\nView
pricing\nStarting at $0.60/hour for GPU\nEnterprise\nGive your team the most
advanced platform to build AI with enterprise-grade security, access controls
and\n\t\t\dedicated support.\nGetting started\nStarting at
$20/user/month\nSingle Sign-On\nRegions\nPriority Support\nAudit Logs\nResource
Groups\nPrivate Datasets Viewer\nMore than 50,000 organizations are using
Hugging Face\nAi2\nEnterprise\nnon-profit\n•\n378 models\n•\n1.84k followers\nAI
at Meta\nEnterprise\ncompany\n•\n2.06k models\n•\n4.03k followers\nAmazon Web
Services\ncompany\n\bullet\n21 models\n\bullet\n2.5k followers\nGoogle\ncompany\n\bullet\n913
models\n \cdot \n 6.25k followers\n Intel\n company\n \cdot \n 217 models\n \cdot \n 2.1k
followers\nMicrosoft\ncompany\n\bullet\n351 models\n\bullet\n6.56k
followers\nGrammarly\ncompany\n•\n10 models\n•\n106
followers\nWriter\nEnterprise\ncompany\n•\n17 models\n•\n191 followers\nOur Open
Source\nWe are building the foundation of ML tooling with the
community.\nTransformers\n137,230\nState-of-the-art ML for Pytorch, TensorFlow,
and JAX.\nDiffusers\n26,987\nState-of-the-art diffusion models for image and
audio generation in PyTorch.\nSafetensors\n2,983\nSimple, safe way to store and
distribute neural networks weights safely and quickly. \nHub Python
Library\n2,205\nClient library for the HF Hub: manage repositories from your
Python runtime.\nTokenizers\n9,227\nFast tokenizers, optimized for both research
and production.\nPEFT\n16,887\nParameter efficient finetuning methods for large
models.\nTransformers.js\n12,520\nState-of-the-art Machine Learning for the web.
Run Transformers directly in your browser, with no need for a
server.\ntimm\n32,811\nState-of-the-art computer vision models, layers,
optimizers, training/evaluation, and utilities.\nTRL\n10,514\nTrain transformer
```

language models with reinforcement learning. \nDatasets \n19,436 \nAccess and share datasets for computer vision, audio, and NLP tasks.\nText Generation Inference\n9,560\nToolkit to serve Large Language Models.\nAccelerate\n8,134\nEasily train and use PyTorch models with multi-GPU, TPU, mixed-precision.\nSystem theme\nWebsite\nModels\nDatasets\nSpaces\nTasks\nInference Endpoints\nHuggingChat\nCompany\nAbout\nBrand assets\nTerms of service\nPrivacy\ $\verb|nJobs\nPress\nResources\nLearn\nDocumentation\nBlog\nForum\nService|\\$ Status\nSocial\nGitHub\nTwitter\nLinkedIn\nDiscord\n\n\nabout page\nWebpage Title:\nabout (Sergei)\nWebpage Contents:\nHugging Face\nModels\nDatasets\nSpaces\nPosts\nDocs\nEnterprise\nPricing\nLog In\nSign Up\nSergei\nabout\nFollow\nRenumathi's profile picture\nKalaipriya's profile picture\nselvivincent's profile picture\n $3\t\t\t$ following\nAI & ML interests\nNone yet\nOrganizations\nNone yet\nmodels\nNone public yet\ndatasets\nNone public yet\nSystem theme\nCompany\nTOS\nPrivacy\nAbou $\verb|t|nJobs|| n Website|| n Models|| n Datasets|| n Spaces|| n Pricing|| n Docs|| n Nn || n Careers|| n Spaces|| n Nn || n Careers|| n Nn || n Careers|$ page\nWebpage Title:\nHugging Face - Current Openings\nWebpage Contents:\n\n\n\nenterprise page\nWebpage Title:\nEnterprise Hub - Hugging F"

```
[18]: create_brochure("HuggingFace", "https://huggingface.com")
```

```
Found links: {'links': [{'type': 'about page', 'url': 'https://huggingface.com/#about'}, {'type': 'careers page', 'url': 'https://apply.workable.com/huggingface/'}, {'type': 'company page', 'url': 'https://huggingface.com/enterprise'}, {'type': 'pricing page', 'url': 'https://huggingface.com/pricing'}, {'type': 'blog page', 'url': 'https://huggingface.com/blog'}]}
# Hugging Face: The AI Community Building the Future
```

Who We Are

Hugging Face is a collaborative platform designed for the machine learning community. Our miss

```
## Our Offerings
```

- **Models**: Explore a vast repository of over **400,000 models** including state-of-the-art
- **Datasets**: Access more than **100,000 datasets** tailored for tasks in natural language p

```
- **Spaces**: Create and run applications effortlessly within our platform. Power your innovat - **Enterprise Solutions**: We cater to over **50,000 organizations** globally, including tech
```

Company Culture

At Hugging Face, we foster a culture of collaboration and innovation. Our team is passionate a

Our Customers

We proudly support a diverse array of clients, from non-profits to top-tier tech companies such - **Google**

- **Microsoft**
- **Amazon Web Services**
- **Intel**
- **Grammarly**

No matter the sector, our solutions are tailored to empower users across the globe.

Careers at Hugging Face

Join us in our journey to create groundbreaking AI technology! We are constantly on the lookou

Current Openings

 $\hbox{Visit our $[$Jobs Page]$} \ (https://huggingface.co/jobs)$ for a list of available positions and opportunities and opportunities of available positions. The properture of the properture o$

Join Our Community

- **Get Started**: Sign up at [Hugging Face](https://huggingface.co) to begin your AI journey.
- **Connect with Us**: Follow us on [Twitter] (https://twitter.com/huggingface), [LinkedIn] (https://twitter.com/huggingface), [LinkedIn]

Together, let's build the future of AI!

This brochure presents an overview of Hugging Face, detailing who they are, their offerings, company culture, customers, and career opportunities. It aims to attract potential customers, investors, and recruits by emphasizing the collaborative nature and innovative spirit of the company.

1.4 Finally - a minor improvement

With a small adjustment, we can change this so that the results stream back from OpenAI, with the familiar typewriter animation

```
response = ""
display_handle = display(Markdown(""), display_id=True)
for chunk in stream:
    response += chunk.choices[0].delta.content or ''
    response = response.replace("```","").replace("markdown", "")
    update_display(Markdown(response), display_id=display_handle.display_id)
```

```
[20]: stream_brochure("HuggingFace", "https://huggingface.co")
```

```
Found links: {'links': [{'type': 'about page', 'url': 'https://huggingface.co/huggingface'}, {'type': 'careers page', 'url': 'https://apply.workable.com/huggingface/'}, {'type': 'pricing page', 'url': 'https://huggingface.co/pricing'}, {'type': 'enterprise page', 'url': 'https://huggingface.co/enterprise'}, {'type': 'docs page', 'url': 'https://huggingface.co/docs'}, {'type': 'blog page', 'url': 'https://huggingface.co/blog'}, {'type': 'community discussion', 'url': 'https://discuss.huggingface.co'}, {'type': 'GitHub page', 'url': 'https://github.com/huggingface'}, {'type': 'LinkedIn page', 'url': 'https://www.linkedin.com/company/huggingface/'}, {'type': 'Twitter page', 'url': 'https://twitter.com/huggingface'}]}
```

2 Hugging Face: The AI Community Building The Future

Welcome to **Hugging Face**, where we are dedicated to creating a collaborative platform for the machine learning community. Our mission is to foster innovation and accessibility in AI technologies, empowering individuals and organizations to harness the power of machine learning.

2.1 About Us

Hugging Face serves as a home for everything Machine Learning. With over **400,000 models** and **100,000 datasets**, our platform enables users to create, discover, and collaborate seamlessly on machine learning projects. We offer tools that facilitate the handling of various modalities including text, image, video, audio, and 3D.

2.1.1 Our Community

More than **50,000 organizations** currently rely on Hugging Face, including industry giants like:

- Amazon Web Services
- Microsoft
- Google
- Intel

Our users collaborate and exchange knowledge, fostering a vibrant community that thrives on shared learning and breakthrough ideas.

2.2 Company Culture

At Hugging Face, we believe in the power of community. We encourage our team and network of users to share insights, tools, and applications. Our culture revolves around inclusivity, support

for open-source initiatives, and continuous learning. We are dedicated to building an environment where innovation is nurtured and every voice is heard.

2.3 Our Products

- Models: Explore and utilize a vast library of machine learning models tailored for various tasks.
- Datasets: Access and share datasets for numerous applications and research needs.
- Spaces: Deploy and run applications easily in a collaborative environment.
- Enterprise Solutions: Tailored services for companies needing advanced security and dedicated support.

2.3.1 Pricing

We provide flexible pricing options starting from \$0.60/hour for GPU compute services and \$20/user/month for our Enterprise solutions.

2.4 Careers at Hugging Face

Join a team of passionate individuals moving the AI field forward! We are constantly looking for innovative thinkers, problem solvers, and team players who are ready to embark on a journey to shape the future of AI. Explore our job openings and discover the possibilities of a career at Hugging Face.

2.5 Connect with Us

Join our community on various platforms: - GitHub - Twitter - LinkedIn - Discord

We're excited to have you become a part of our journey in shaping the future of AI.

```
[23]: # Try changing the system prompt to the humorous version when you make the Brochure for Hugging Face:

stream_brochure("HuggingFace", "https://huggingface.co")

Found links: {'links': [{'type': 'about page', 'url': 'https://huggingface.co/huggingface'}, {'type': 'careers page', 'url': 'https://apply.workable.com/huggingface/'}, {'type': 'enterprise page', 'url': 'https://huggingface.co/enterprise'}, {'type': 'pricing page', 'url': 'https://huggingface.co/pricing'}, {'type': 'blog page', 'url': 'https://discuss.huggingface.co'}, {'type': 'GitHub page', 'url': 'https://github.com/huggingface'}, {'type': 'Twitter page', 'url': 'https://sithub.com/huggingface'}, {'type': 'LinkedIn page', 'url': 'https://www.linkedin.com/company/huggingface/'}]}
```

3 Welcome to Hugging Face: The AI Playground!

3.1 Who Are We?

At Hugging Face, we're not just an AI company; we're the AI community building the future (and having a ton of fun while doing it)! Whether you're a budding machine learner, a dataset wizard, or a debugging ninja, we've got a place for you!

3.2 What Do We Do?

Forget about cars and rocket ships; we're all about **Models**, **Datasets**, and **Spaces** - sounds like a sci-fi movie, right? Here's what's trending this week:

- DeepSeek-V3: The model that seeks deep like a philosopher in a coffee shop!
- PowerInfer/SmallThinker-3B-Preview: Small in name but mighty in intelligence!

With over 400k+ models and 150k+ applications, you're sure to find a gem!

3.3 Why Join Us?

- Collaboration for the win! Get your ML team together and host unlimited public models, datasets, and applications. Who needs a Classroom when you can create the coolest AI projects from anywhere?
- Accelerate your career. With our HF Open Source stack, you'll grow faster than a computer can run a 3D model!
- Join 50,000+ organizations that trust us, including AI at Meta, Google, and...hey, even Grammarly! Can't forget about those grammar heroes, right?

3.4 Company Culture

- Work hard, code harder: At Hugging Face, our idea of fun includes brainstorming AI solutions while sipping coffee or decoding complicated algorithms (or both!).
- **Diversity is our strength:** We welcome everyone to our quirky family—from PhD geniuses to AI newcomers. Who says you can't teach an old bot new tricks?

3.5 Careers: Be Part of Something Great!

• We're hiring! Want to help us build the future? Check out our jobs page! Whether you're into engineering or marketing, we're on the lookout for talent. Just be prepared for spontaneous discussions about neural networks and the latest memes from the AI community!

3.6 Join the Hugging Face Community!

Ready to embrace the future of AI? Sign up today and become part of the family that recognizes the power of hugging...well, virtually!

So don your best coding socks, grab your favorite snack, and let's build some AI magic together!

Get in Touch! - Website - GitHub - Twitter - Discord

Remember, at Hugging Face, no one gets left behind—except maybe for that old model you never used.

Business applications

In this exercise we extended the Day 1 code to make multiple LLM calls, and generate a document.

This is perhaps the first example of Agentic AI design patterns, as we combined multiple calls to LLMs. This will feature more in Week 2, and then we will return to Agentic AI in a big way in Week 8 when we build a fully autonomous Agent solution.

Generating content in this way is one of the very most common Use Cases. As with summarization, this can be applied to any business vertical. Write marketing content, generate a product tutorial from a spec, create personalized email content, and so much more. Explore how you can apply content generation to your business, and try making yourself a proof-of-concept prototype.

Before you move to Week 2 (which is tons of fun)

Please see the week1 EXERCISE notebook for your challenge for the end of week 1. This will give you some essential practice working with Frontier APIs, and prepare you well for Week 2.

A reminder on 2 useful resources

1. The resources for the course are available here. 2. I'm on LinkedIn here and I love connecting with people taking the course!

Finally! I have a special request for you

My editor tells me that it makes a MASSIVE difference when students rate this course on Udemy - it's one of the main ways that Udemy decides whether to show it to others. If you're able to take a minute to rate this, I'd be so very grateful! And regardless - always please reach out to me at ed@edwarddonner.com if I can help at any point.

[]:			