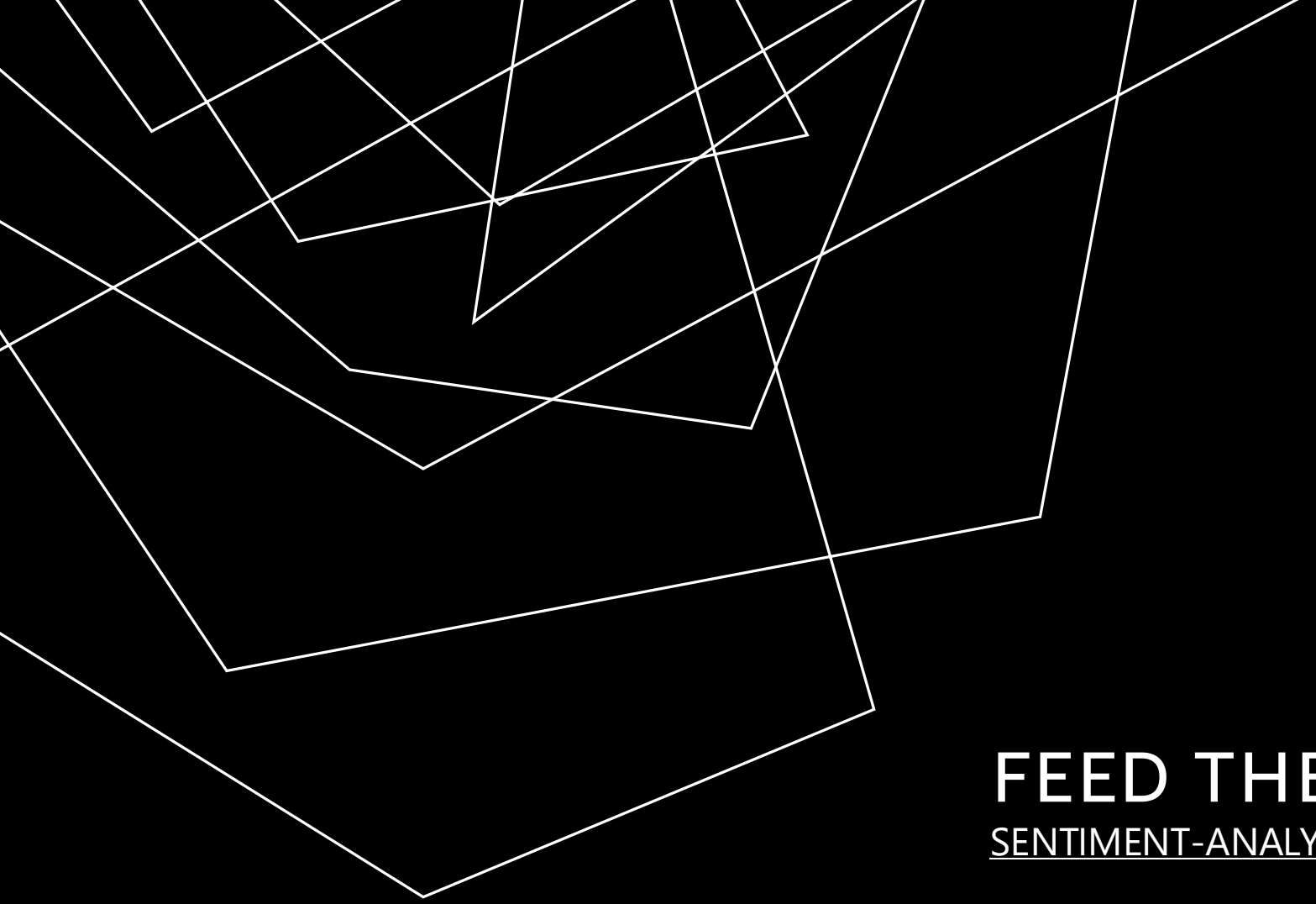


# FEED THE DATA SCIENTISTS

SENTIMENT-ANALYSIS-PYTHON

# A CREATIVE CLOUD SOLUTION FOR DATA SCIENTISTS & OTHER COMPANIES

https://huggingface.co/blog/sentiment-analysis-python

The model into the container is the fourth section of this paper:

**4. Analyzing Tweets with Sentiment Analysis and Python**

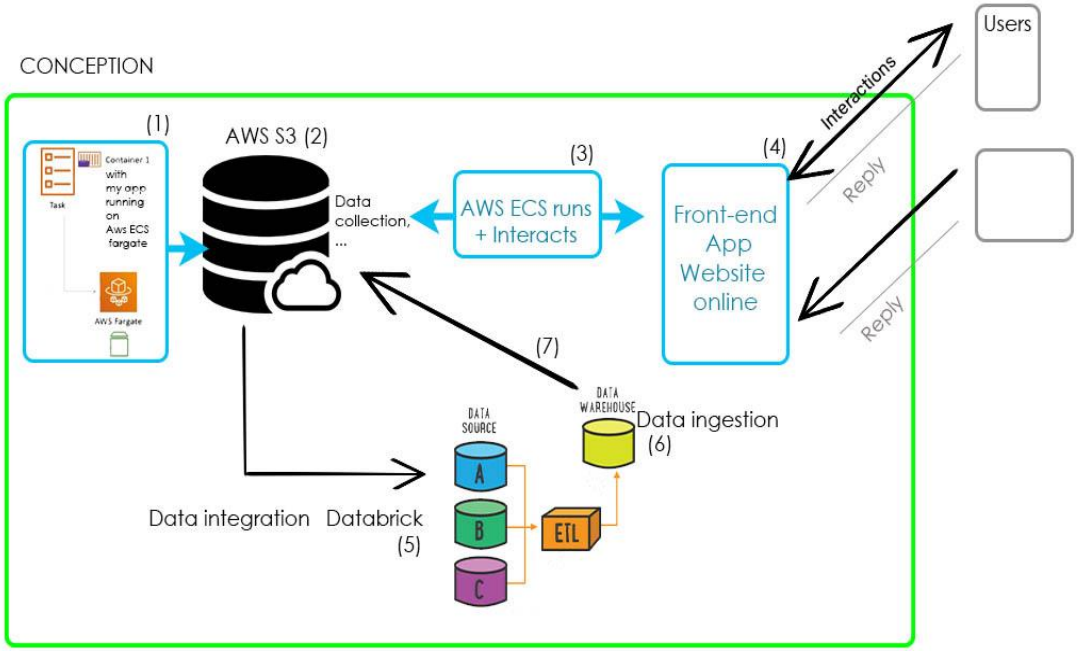
The model within the container is the fourth section of this paper:

Codes run into Vscode on a computer for the test phase (as you could see on a following screenshot) in relation to Anaconda prompt librairies.

A "X" developer account allows me the access of the APIs. We could imagine as it's explained in the link from Huggingface, being a multinational Films producer wishing an analyze and to know the public opinion about the release of a movie, or being Social Data Scientists;

We also might be working for the French President and make an assessment of his last decision making and what the general opinion thinks on it...

The provided code is then containerized (Docker) and it runs by aws fargate cloud service. Users here, are people using the X application with a freedom of speech.



# HOW TO PROCESS? STEP BY STEP

1/ Creation of codes using Python Environments in Visual Studio Code (Vscode) with the X APIs (X developer account)
https://huggingface.co/blog/sentiment-analysis-python

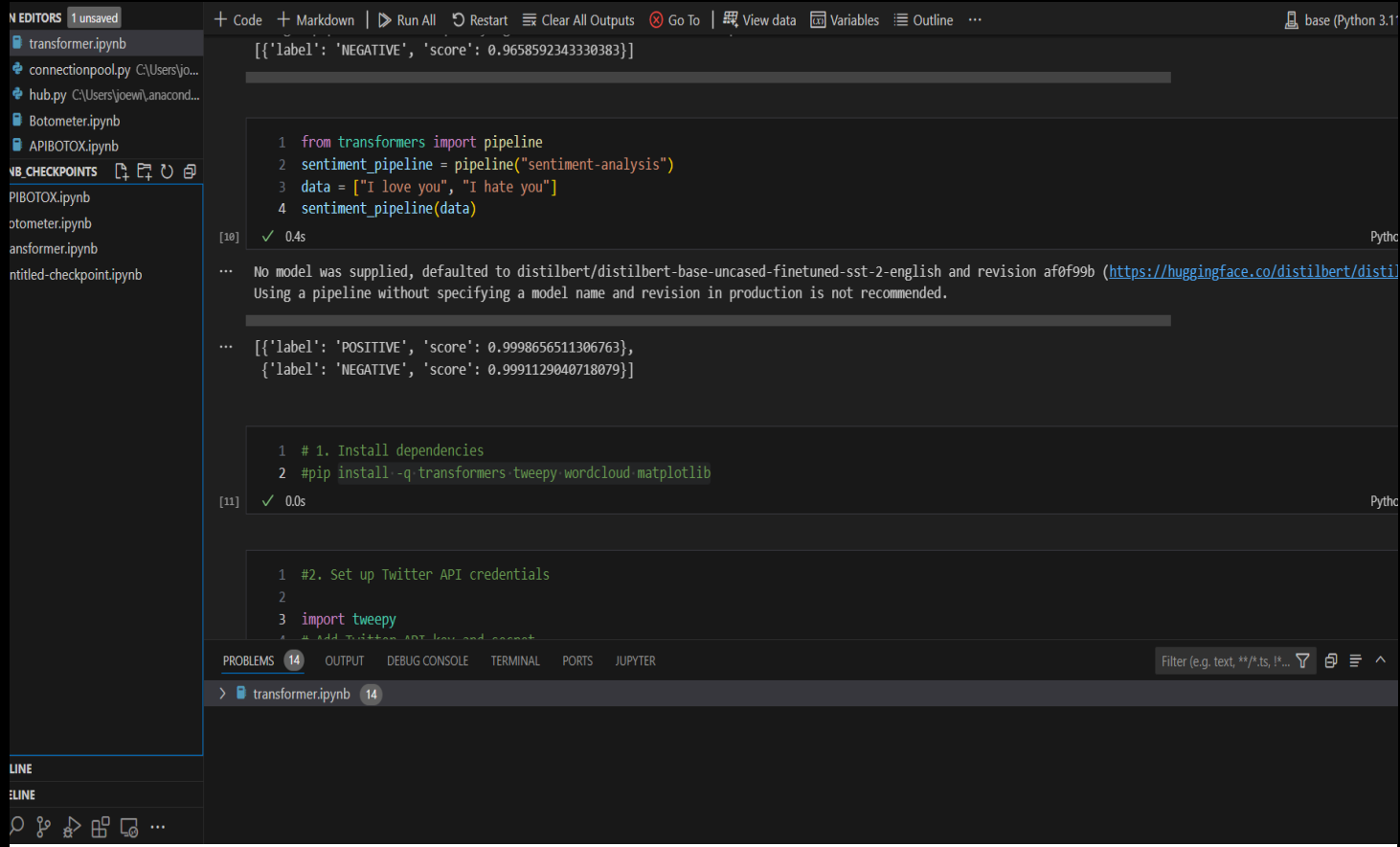
2/ Containerization of the model (Docker) after test

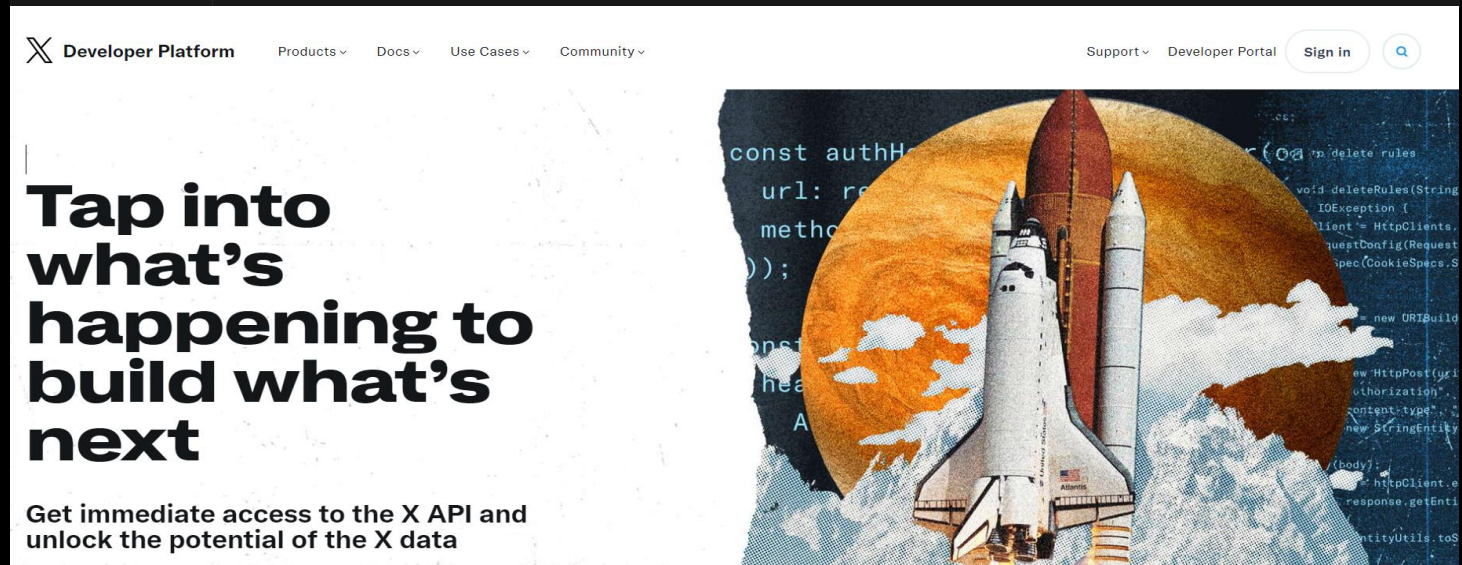
2/ AWS ECS Fargate + S3 services (creation account)

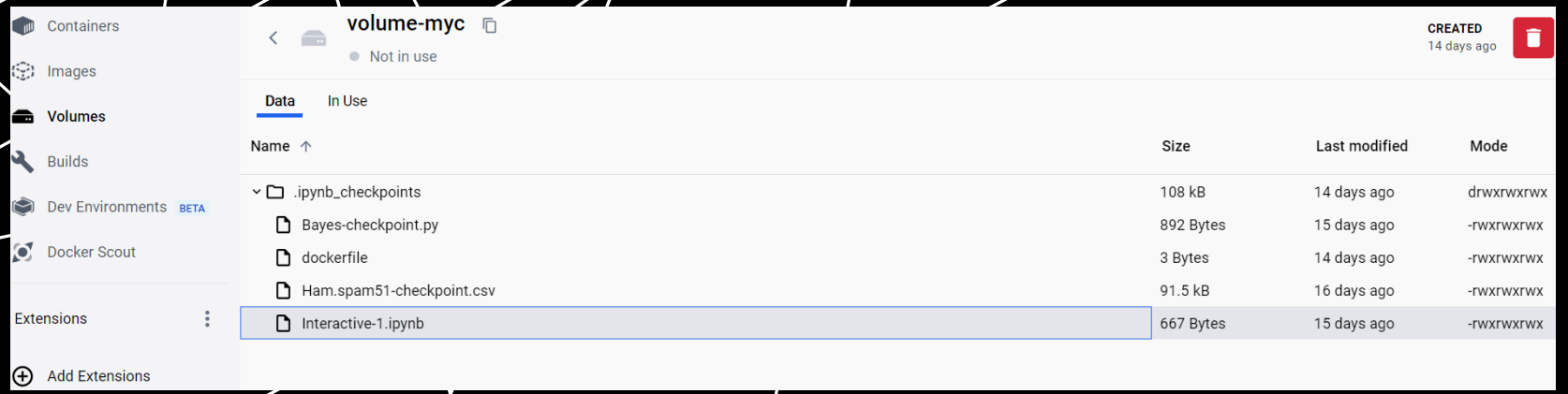
3/ Databricks account

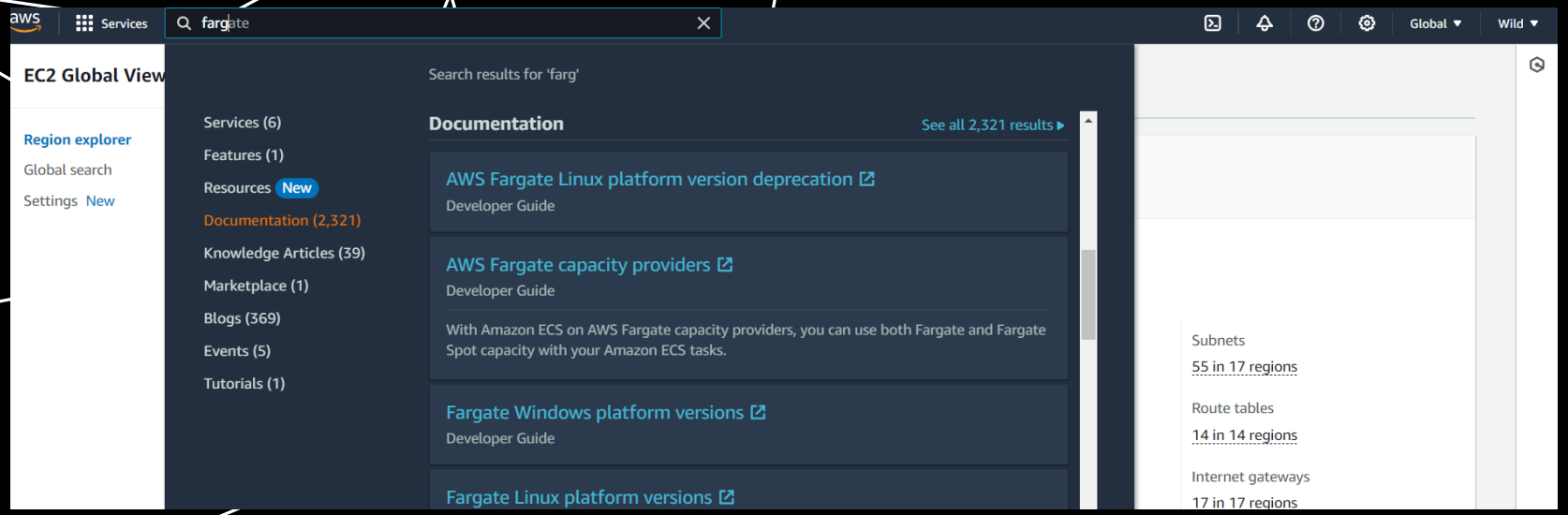
4/ Terraform Installation, creation of the compliant files, interactions between the different types of "modules" <->

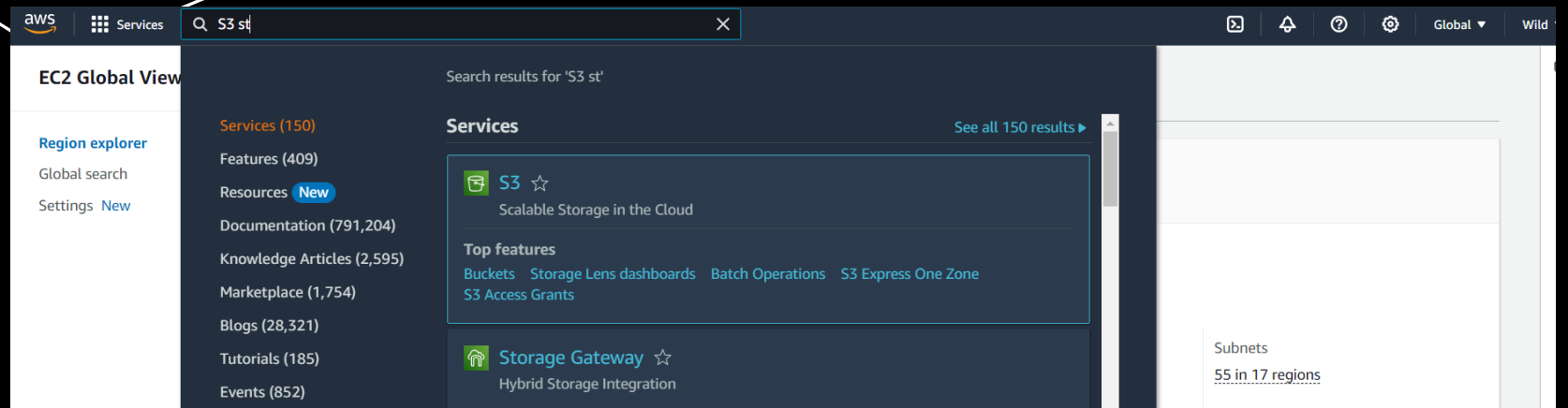
5/ Databricks Integration + Ingestion ETL



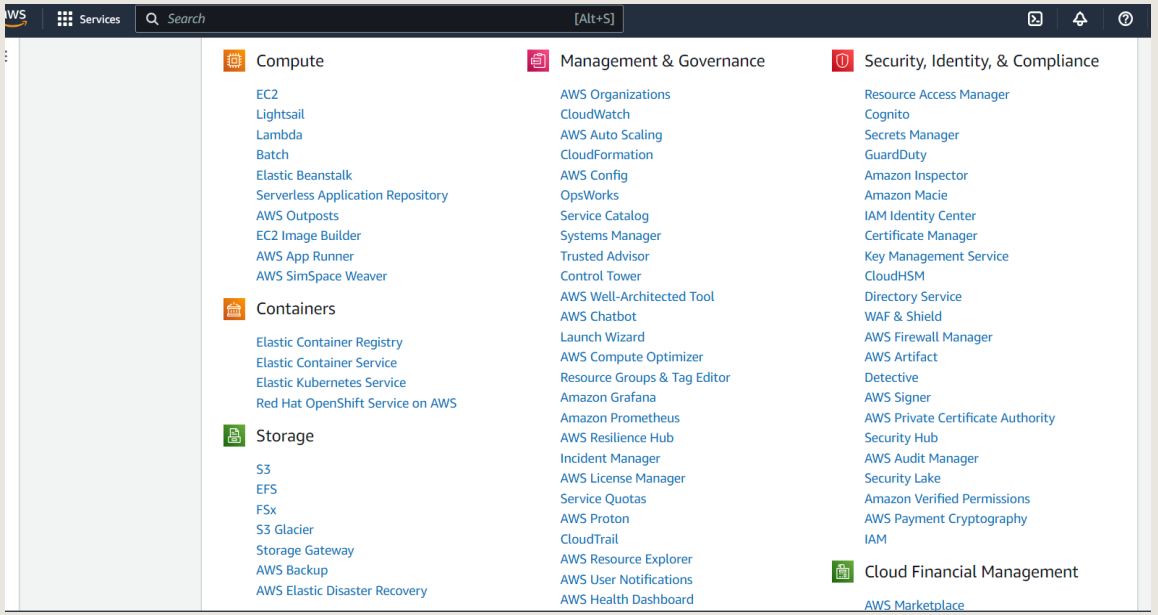

Containers
Images
Volumes
Builds
Dev Environments BETA
Docker Scout
Extensions
Add Extensions
volume-myc
Not in use
CREATED
14 days ago
Data
In Use
Name
Size
Last modified
Mode
.ipynb_checkpoints
108 kB
14 days ago
drwxrwxrwx
Bayes-checkpoint.py
892 Bytes
15 days ago
-rwxrwxrwx
dockerfile
3 Bytes
14 days ago
-rwxrwxrwx
Ham.spam51-checkpoint.csv
91.5 kB
16 days ago
-rwxrwxrwx
Interactive-1.ipynb
667 Bytes
15 days ago
-rwxrwxrwx

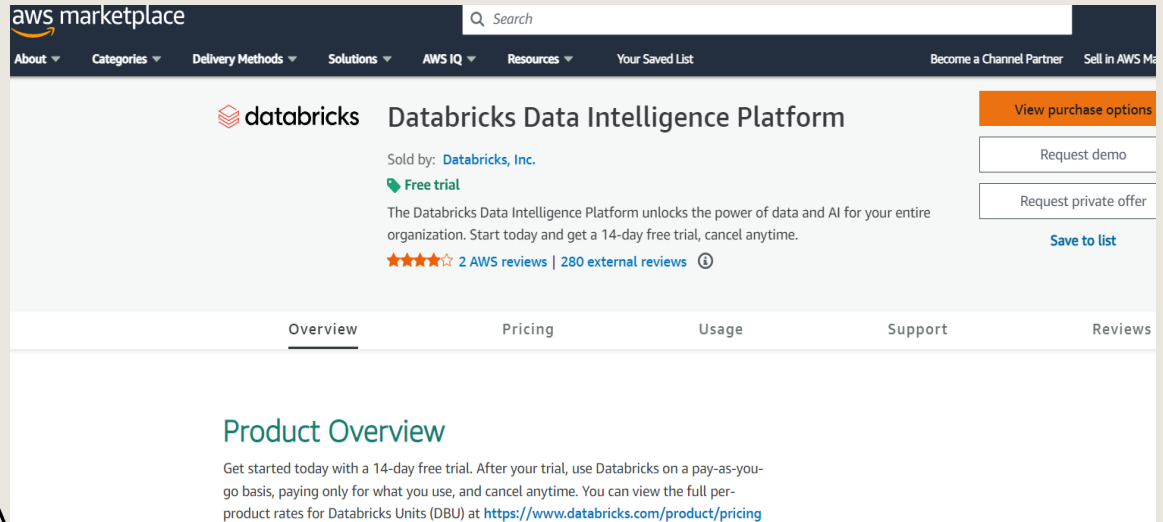

aws
Services
fargate
Global
Wild
EC2 Global View
Region explorer
Global search
Settings New
Search results for 'farg'
Services (6)
Features (1)
Resources New
Documentation (2,321)
Knowledge Articles (39)
Marketplace (1)
Blogs (369)
Events (5)
Tutorials (1)
Documentation
See all 2,321 results
AWS Fargate Linux platform version deprecation
Developer Guide
AWS Fargate capacity providers
Developer Guide
With Amazon ECS on AWS Fargate capacity providers, you can use both Fargate and Fargate Spot capacity with your Amazon ECS tasks.
Fargate Windows platform versions
Developer Guide
Fargate Linux platform versions
Subnets
55 in 17 regions
Route tables
14 in 14 regions
Internet gateways
17 in 17 regions


aws
Services
S3 st
Global
Wild
EC2 Global View
Region explorer
Global search
Settings New
Search results for 'S3 st'
Services (150)
Features (409)
Resources New
Documentation (791,204)
Knowledge Articles (2,595)
Marketplace (1,754)
Blogs (28,321)
Tutorials (185)
Events (852)
Services
See all 150 results
S3
Scalable Storage in the Cloud
Top features
Buckets
Storage Lens dashboards
Batch Operations
S3 Express One Zone
S3 Access Grants
Storage Gateway
Hybrid Storage Integration
Subnets
55 in 17 regions

# AWS SERVICES

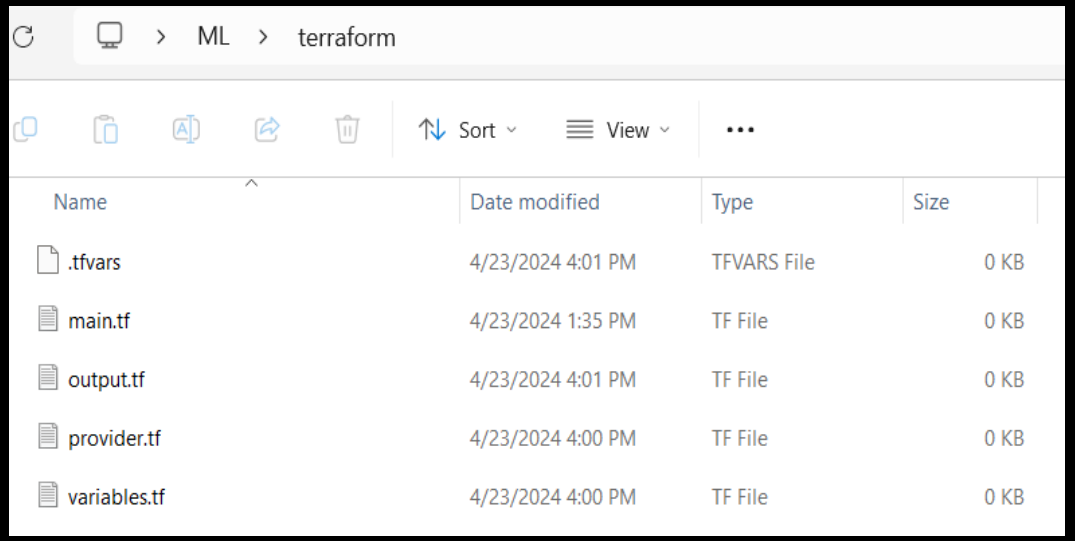
- https://us-east-1.console.aws.amazon.com/console/services?region=us-east-1

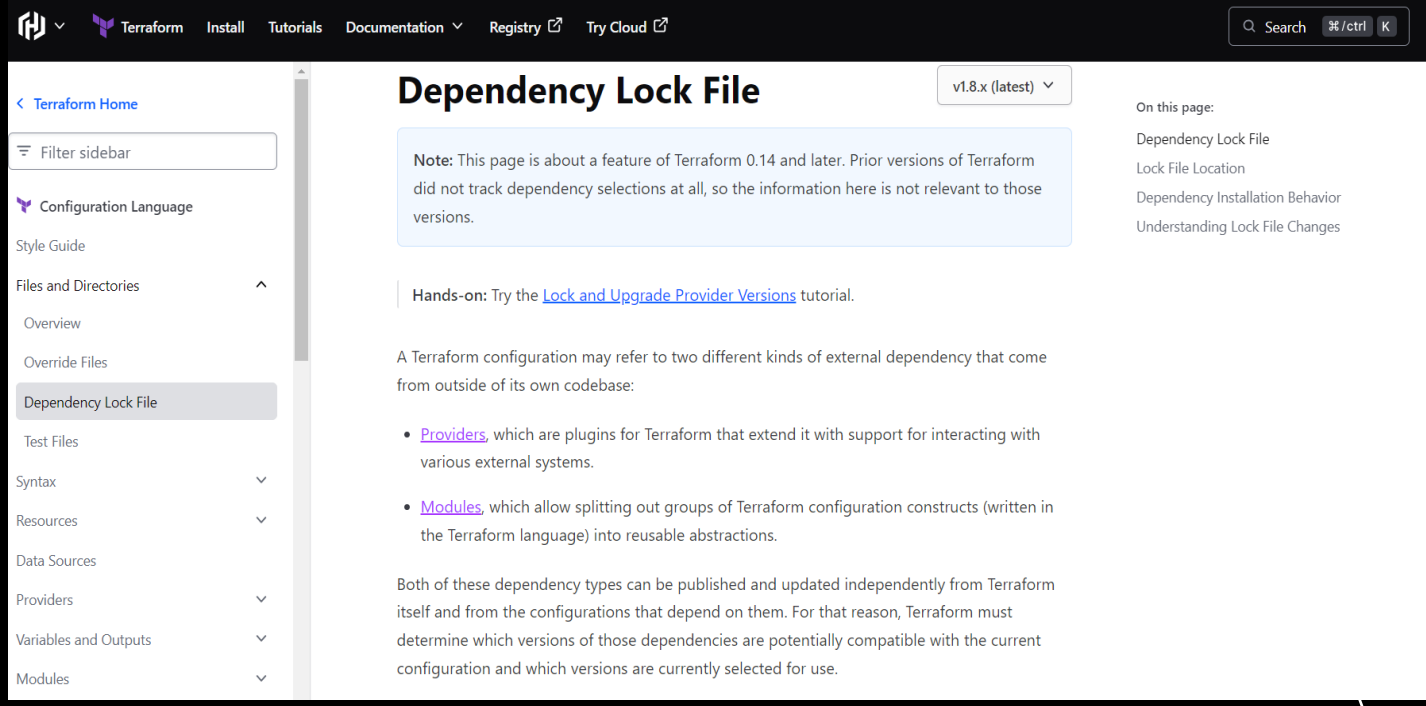


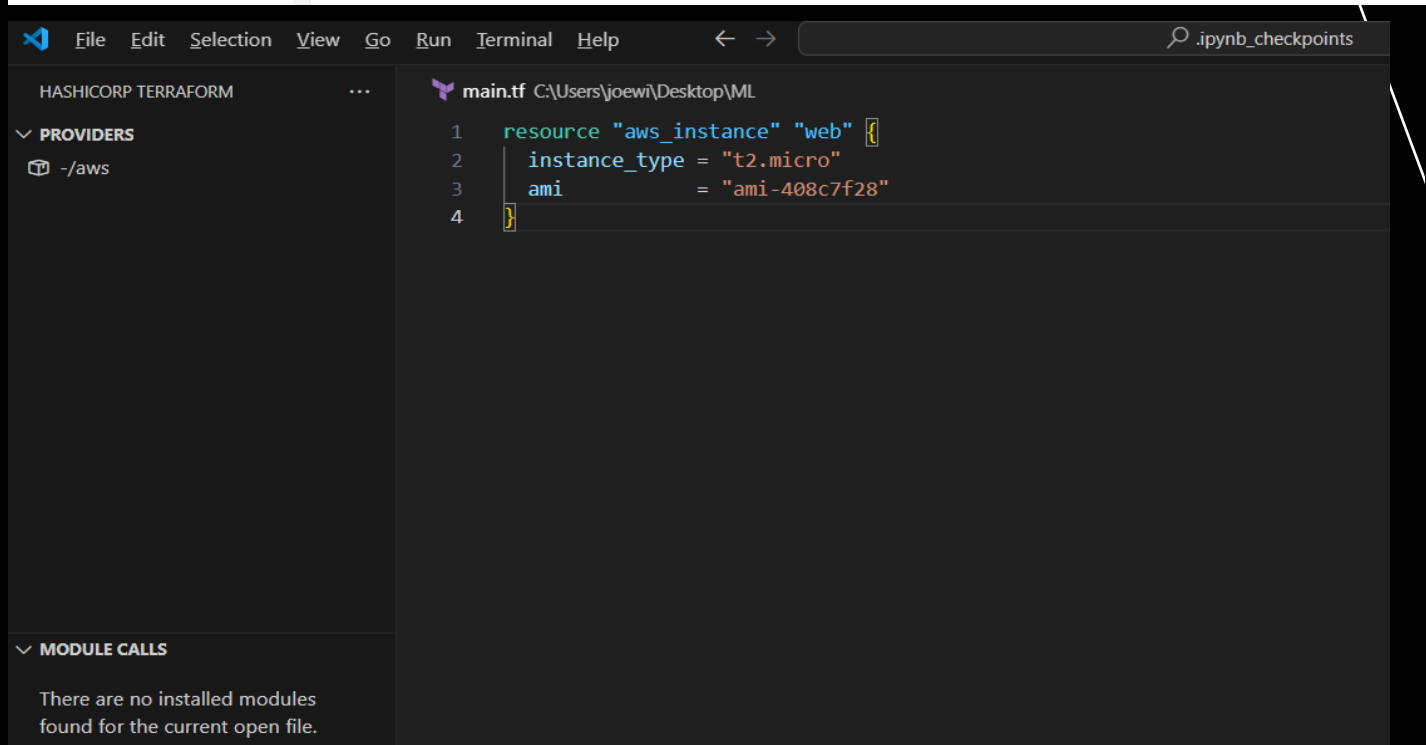



# TERRAFORM FILES FOR STRUCTURE

- **provider.tf** – containing the terraform block, s3 backend definition, provider configurations, and aliases.
- **main.tf** – containing the resource blocks which define the resources to be created in the target cloud platform.
- **variables.tf** – containing the variable declarations used in the resource blocks.
- **output.tf** – containing the output that needs to be generated on successful completion of “apply” operation.
- ***.tfvars** – containing the environment-specific default values of variables.
- More information (https://spacelift.io/blog/terraform-files)



At that point in the process, we could:

Have a code series provided by https://huggingface.co/ as Transformers and be able to define sentiments according to text interactions (comments) on Twitter (X) in response to a post made by our company, utilizing the API of X's developer space.

We should aim to minimize spending on AWS services for the "run" process of the container by using AWS ECS Fargate and S3 storage for gathering returned data from the frontend application.

We would also manage all this infrastructure "easily" with Terraform in VSCode, ensuring that elements are correctly assigned according to different files and their purposes.

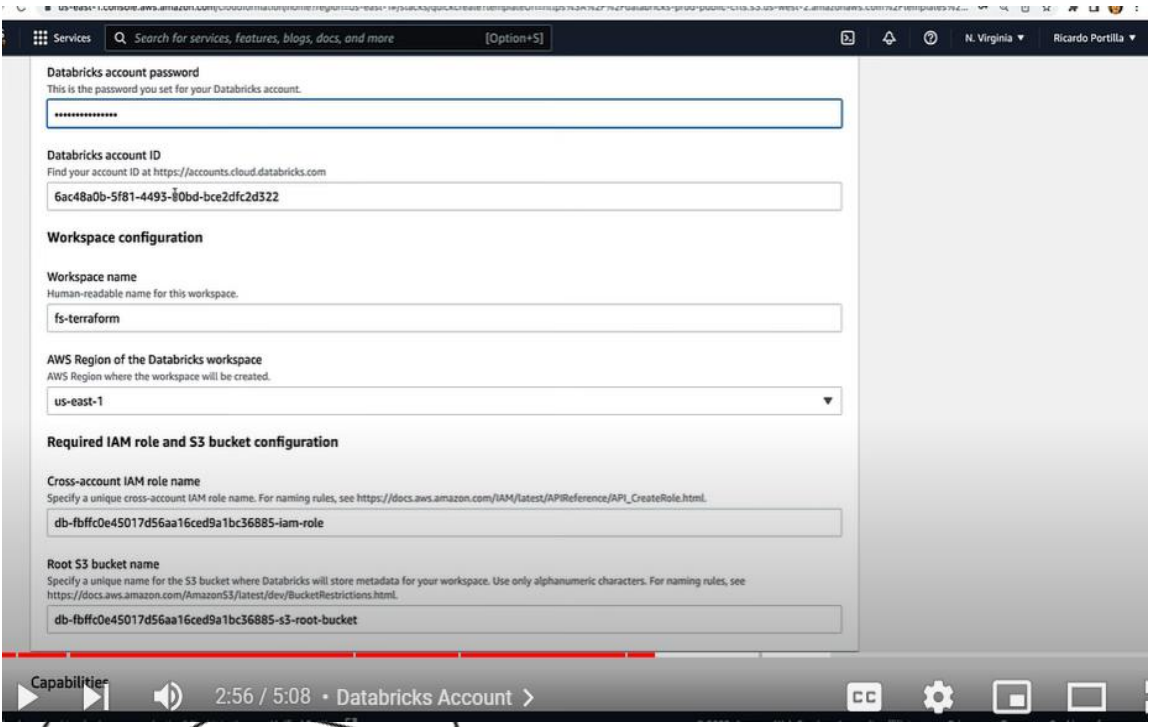
The model is capable of providing our company with a clear report of the situation. We can either store all of them in the data storage or sort and list them, allowing us to review past events in order to avoid making bad choices again.

**"Those who control the present, control the past and those who control the past control the future."**
**— George Orwell, 1984**

# DATABRICKS ETL PIPELINES

(*) https://youtu.be/gEDS5DOUgY8?feature=shared

(*)




databricks

On Demand

## Simplify ETL Pipelines on the Databricks Lakehouse

Take a modern approach to data engineering with Delta Live Tables

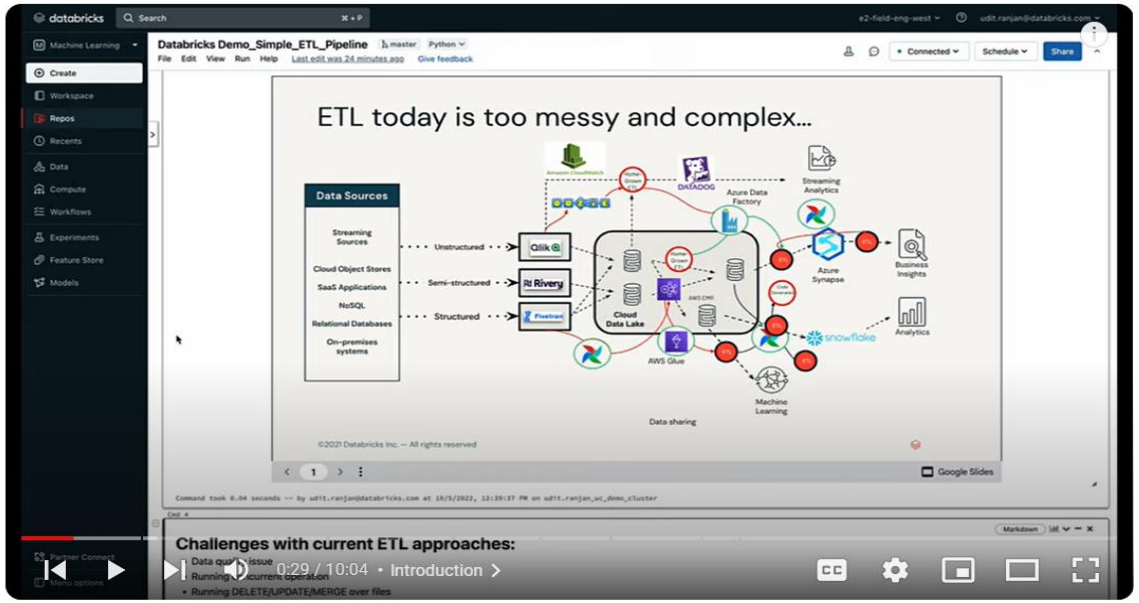
Available on demand

Data reliability and performance

Easily extract, transform and load both batch and streaming data with reliable production workflows on a single data platform. The Databricks Lakehouse Platform is the best place to build and run modern ETL pipelines to support real-time analytics and machine learning. Find out how in this

### Watch the Presentation

* First Name:




**Get Data Into Databricks - Simple ETL Pipeline**

Databricks
103K subscribers
Subscribe
740
Share
Save

# GROWTH STRATEGY

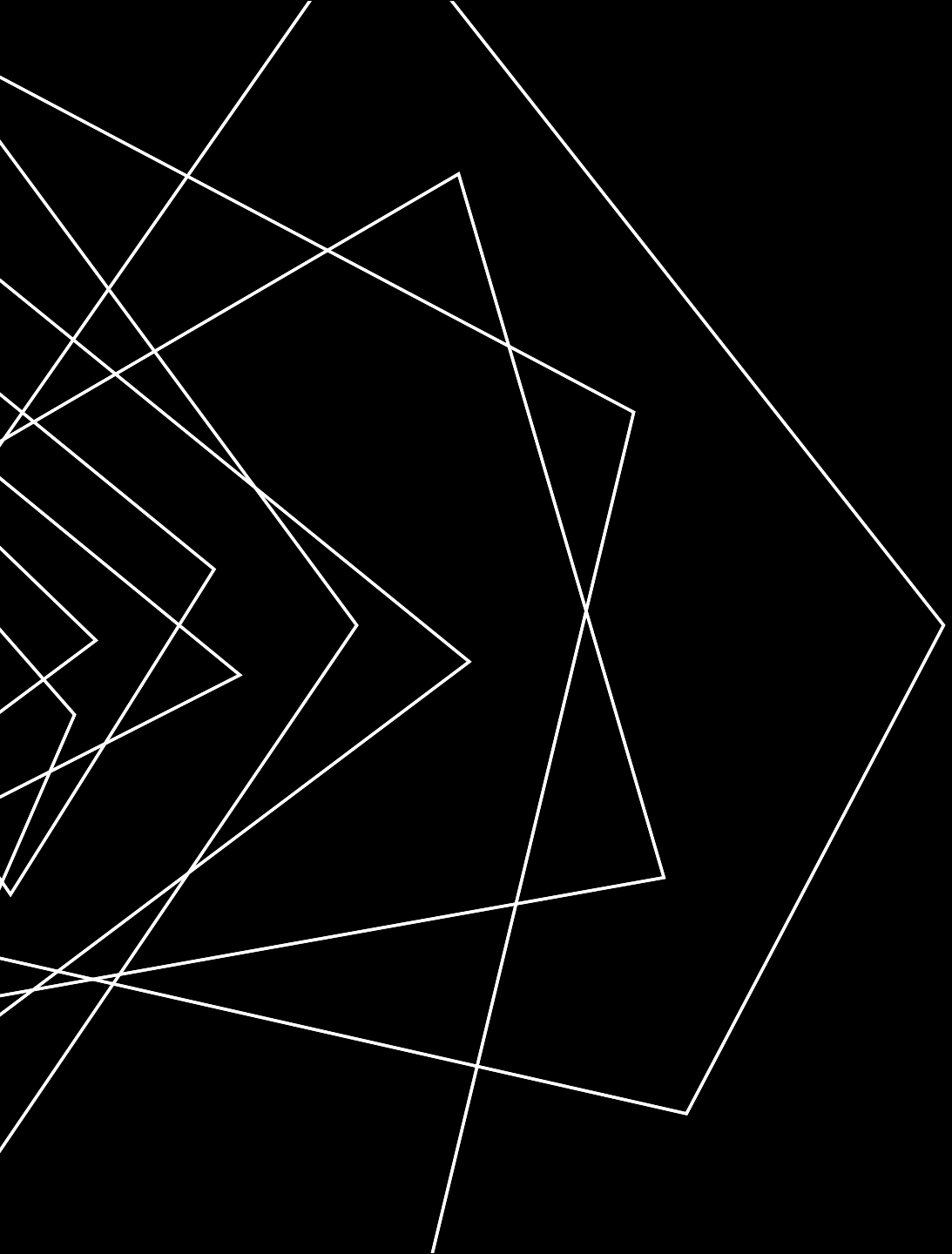
federicopascual

**Federico Pascual**

Sentiment analysis is the automated process of tagging data according to their sentiment, such as positive, negative and neutral. Sentiment analysis allows companies to analyze data at scale, detect insights and automate processes.

In the past, sentiment analysis used to be limited to researchers, machine learning engineers or data scientists with experience in natural language processing. However, the AI community has built awesome tools to democratize access to machine learning in recent years. Nowadays, you can use sentiment analysis with a few lines of code and no machine learning experience at all! 🤯

https://huggingface.co/blog/sentiment-analysis-python



JOE WILD