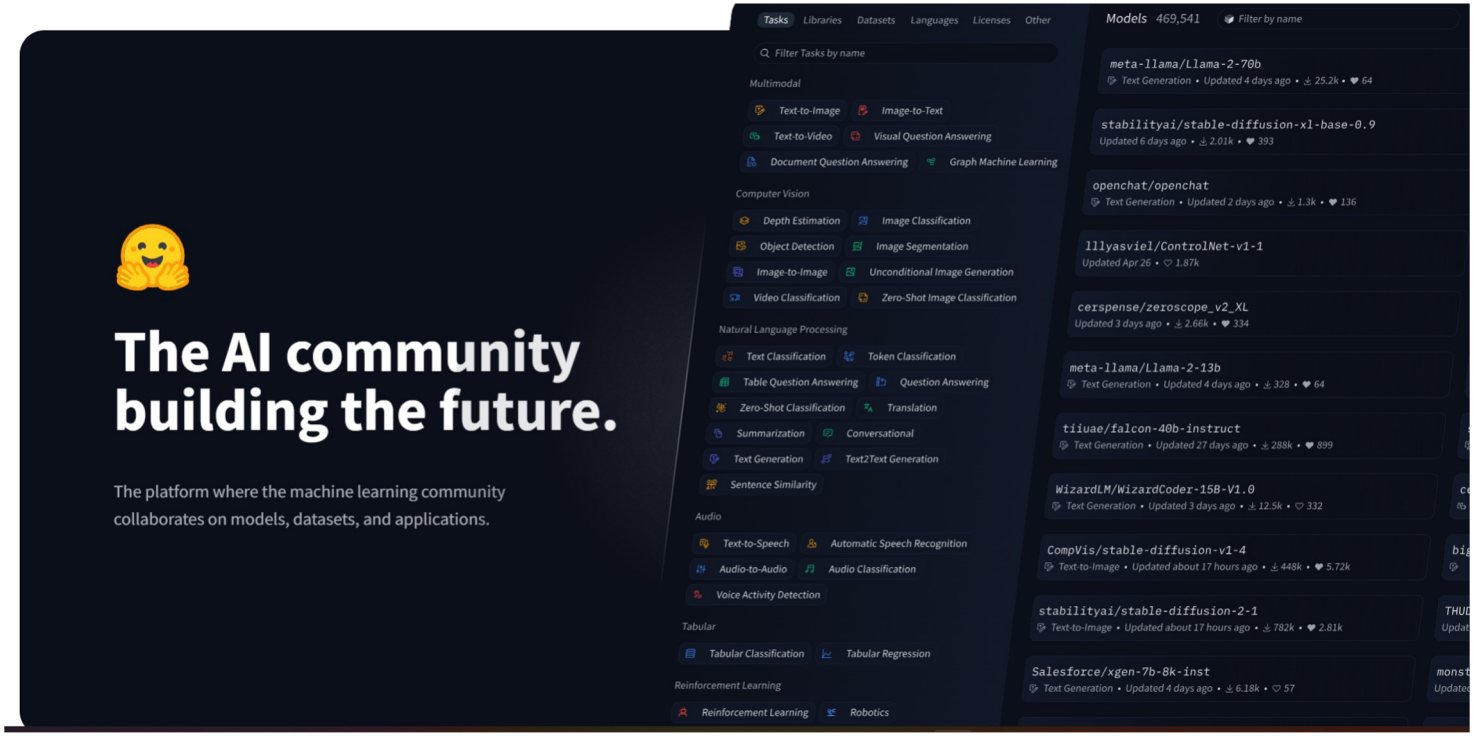
Huggingface

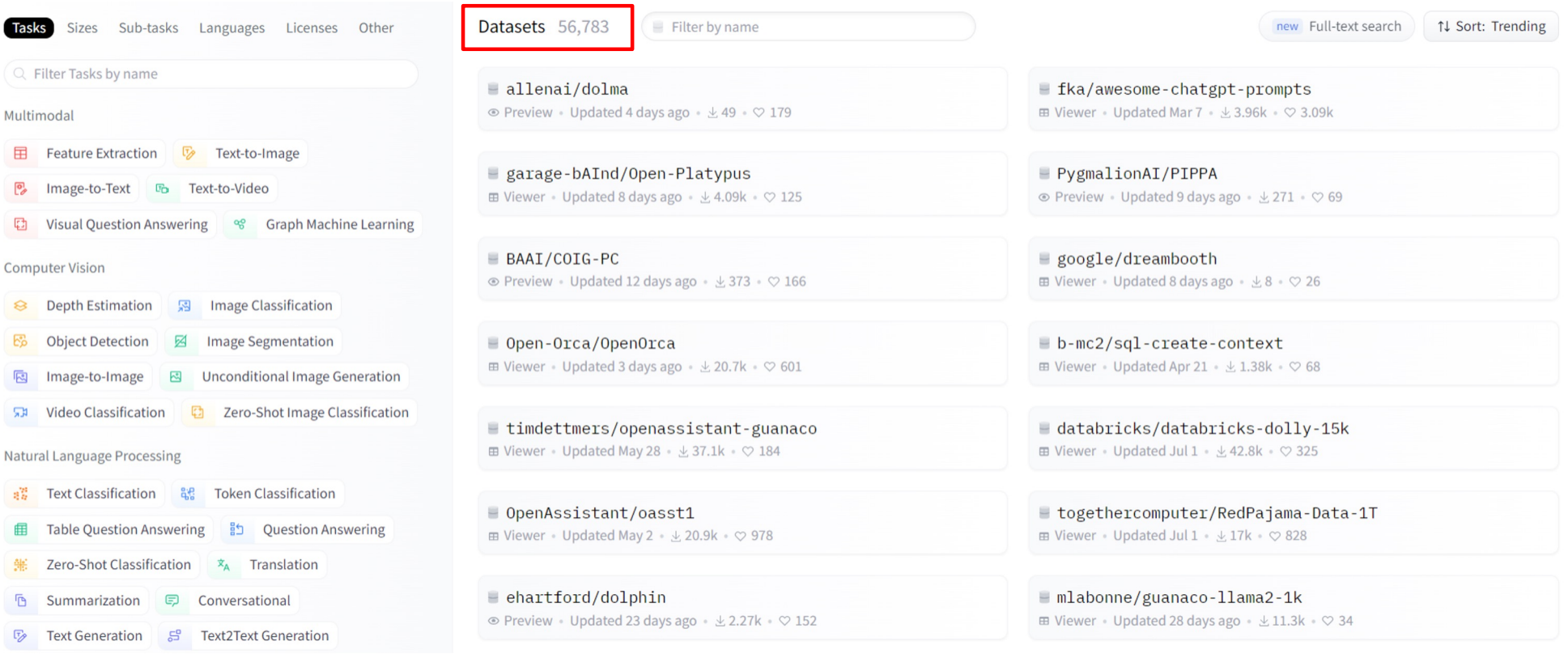
Credit to TA.Cheetah

What is Huggingface?

- HuggingFace is an AI community that promotes open source contributions. It is a hub of open source models for Natural Language Processing, computer vision, and other fields where AI plays its role. Even the tech giants like Google, Facebook, AWS, Microsoft, and others use the models, datasets, and libraries.

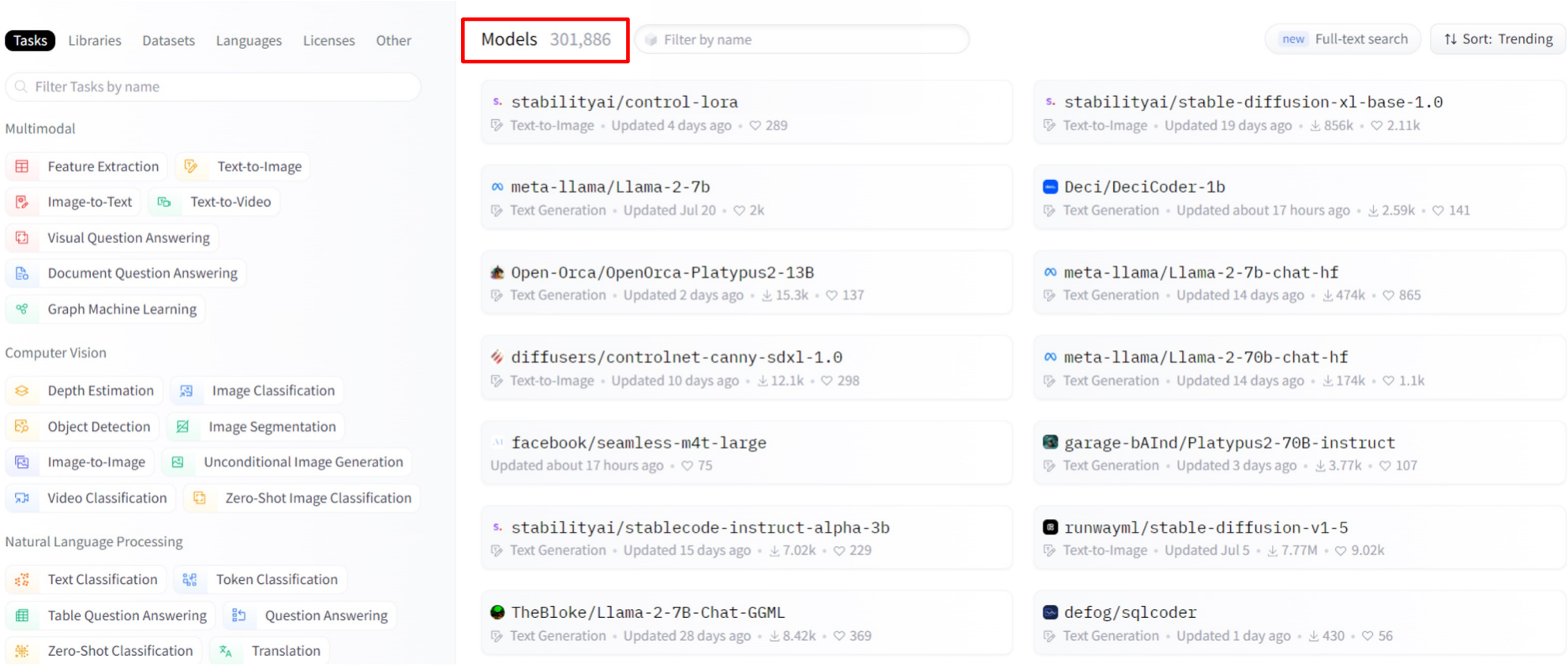


Datasets in Huggingface



Ref: https://huggingface.co/datasets?sort=trending

Models in Huggingface



Ref: https://huggingface.co/models

Examples notebook

PyTorch Examples

Natural Language Processing

Notebook	Description
Train your tokenizer	How to train and use your very own tokenizer
Train your language model	How to easily start using transformers
How to fine-tune a model on text classification	Show how to preprocess the data and fine-tune a pretrained model on any GLUE task.
How to fine-tune a model on language modeling	Show how to preprocess the data and fine-tune a pretrained model on a causal or masked LM task.
How to fine-tune a model on token classification	Show how to preprocess the data and fine-tune a pretrained model on a token classification task (NER, PoS).
How to fine-tune a model on question answering	Show how to preprocess the data and fine-tune a pretrained model on SQUAD.
How to fine-tune a model on multiple choice	Show how to preprocess the data and fine-tune a pretrained model on SWAG.

Computer Vision

Notebook	Description
How to fine-tune a model on image classification (Torchvision)	Show how to preprocess the data using Torchvision and fine-tune any pretrained Vision model on Image Classification
How to fine-tune a model on image classification (Albumentations)	Show how to preprocess the data using Albumentations and fine-tune any pretrained Vision model on Image Classification
How to fine-tune a model on image classification (Kornia)	Show how to preprocess the data using Kornia and fine-tune any pretrained Vision model on Image Classification
How to perform zero-shot object detection with OWL-ViT	Show how to perform zero-shot object detection on images with text queries
How to fine-tune an image captioning model	Show how to fine-tune BLIP for image captioning on a custom dataset
How to build an image similarity system with Transformers	Show how to build an image similarity system
How to fine-tune a SegFormer model on semantic segmentation	Show how to preprocess the data and fine-tune a pretrained SegFormer model on Semantic Segmentation
How to fine-tune a VideoMAE model on video classification	Show how to preprocess the data and fine-tune a pretrained VideoMAE model on Video Classification

Fine-tune a pretrained model: https://huggingface.co/docs/transformers/training
Ref: https://huggingface.co/docs/transformers/notebooks

Error with tensorboard

- If tensorboard error, you will change 'Block third-party cookies' to 'Allow third-party cookies' or 'Block third-party cookies in incognito mode'.

```
%load_ext tensorboard
%tensorboard --logdir '{"vit-base-beans-demo-v5"}'/runs
```

Google

403. That's an error.

That's all we know.