

# 1 Запускаем докер: docker pull tensorflow/serving

Проверяем запуск: docker images

# 2 Клонировем с Гита

git clone https://github.com/tensorflow/serving

# 3-Загружаем контейнер

docker run -p 8501:8501 --mount

type=bind,source=C:\Users\root\PycharmProjects\Test\_docker\DZ\_22(PRO)\PRO,target=/models/fashion\_mnist -e MODEL\_NAME=fashion\_mnist -t tensorflow/serving

```
Выбрать Командная строка - docker run -p 8501:8501 --mount type=bind,source=C:\Users\root\PycharmProjects\Test_docker\DZ_22(PRO)\PRO,target=/models/fashion_mnist -e MODEL_NAME=fashion_mnist -t tensorflow/serving
2021-03-03 13:55:02.430570: I tensorflow_serving/model_servers/server.cc:88] Building single TensorFlow model file config: model_name: fashion_mnist model_base_path: /models/fashion_mnist
2021-03-03 13:55:02.430898: I tensorflow_serving/model_servers/server_core.cc:464] Adding/updating models.
2021-03-03 13:55:02.431122: I tensorflow_serving/model_servers/server_core.cc:587] (Re-)adding model: fashion_mnist
2021-03-03 13:55:02.677266: I tensorflow_serving/core/basic_manager.cc:740] Successfully reserved resources to load servable {name: fashion_mnist version: 2}
2021-03-03 13:55:02.677410: I tensorflow_serving/core/loader_harness.cc:66] Approving load for servable version {name: fashion_mnist version: 2}
2021-03-03 13:55:02.677621: I tensorflow_serving/core/loader_harness.cc:74] Loading servable version {name: fashion_mnist version: 2}
2021-03-03 13:55:02.683589: I external/org_tensorflow/tensorflow/cc/saved_model/reader.cc:32] Reading SavedModel from: /models/fashion_mnist/2
2021-03-03 13:55:02.700361: I external/org_tensorflow/tensorflow/cc/saved_model/reader.cc:55] Reading meta graph with tags { serve }
2021-03-03 13:55:02.700499: I external/org_tensorflow/tensorflow/cc/saved_model/reader.cc:93] Reading SavedModel debug info (if present) from: /models/fashion_mnist/2
2021-03-03 13:55:02.703352: I external/org_tensorflow/tensorflow/core/platform/cpu_feature_guard.cc:142] This TensorFlow binary is optimized with oneAPI Deep Neural Network Library (oneDNN) to use the following CPU instructions in performance-critical operations: AVX2 FMA
To enable them in other operations, rebuild TensorFlow with the appropriate compiler flags.
2021-03-03 13:55:02.788207: I external/org_tensorflow/tensorflow/cc/saved_model/loader.cc:206] Restoring SavedModel bundle.
2021-03-03 13:55:02.801922: I external/org_tensorflow/tensorflow/core/platform/profile_utils/cpu_utils.cc:112] CPU Frequency: 1800000000 Hz
2021-03-03 13:55:02.992554: I external/org_tensorflow/tensorflow/cc/saved_model/loader.cc:190] Running initialization op on SavedModel bundle at path: /models/fashion_mnist/2
2021-03-03 13:55:03.014097: I external/org_tensorflow/tensorflow/cc/saved_model/loader.cc:277] SavedModel load for tags { serve }; Status: success: OK. Took 330533 microseconds.
2021-03-03 13:55:03.021253: I tensorflow_serving/servables/tensorflow/saved_model_warmup_util.cc:59] No warmup data file found at /models/fashion_mnist/2/assets.extra/tf_serving_warmup_requests
2021-03-03 13:55:03.246153: I tensorflow_serving/core/loader_harness.cc:87] Successfully loaded servable version {name: fashion_mnist version: 2}
2021-03-03 13:55:03.268268: I tensorflow_serving/model_servers/server.cc:371] Running gRPC ModelServer at 0.0.0.0:8500 ...
[warn] getaddrinfo: address family for nodename not supported
2021-03-03 13:55:03.284006: I tensorflow_serving/model_servers/server.cc:391] Exporting HTTP/REST API at: localhost:8501 ...
[evhttp_server.cc : 238] NET_LOG: Entering the event loop ...
```

## # Выполняем запрос

```
Выбрать Командная строка
Microsoft Windows [Version 10.0.19042.804]
(c) 2020 Microsoft Corporation. All rights reserved.

C:\Users\root>cd C:\Users\root\PycharmProjects\Test_docker\DZ_22(PRO)\PRO\
C:\Users\root\PycharmProjects\Test_docker\DZ_22(PRO)\PRO>curl -X POST -H "Content-Type:application/json" -d @C:\Users\root\PycharmProjects\Test_docker\DZ_22(PRO)\predict.json http://localhost:8501/v1/models/fashion_mnist:predict
warning: Couldn't read data from file
warning: "C:\Users\root\PycharmProjects\Test_docker\DZ_22(PRO)\predict.json",
warning: this makes an empty POST.
{
  "error": "JSON Parse error: The document is empty"
}
C:\Users\root\PycharmProjects\Test_docker\DZ_22(PRO)\PRO>curl -X POST -H "Content-Type:application/json" -d @C:\Users\root\PycharmProjects\Test_docker\DZ_22(PRO)\predict.json http://localhost:8501/v1/models/fashion_mnist:predict
{"predictions": [[{"label": "T-shirt", "probability": 0.999979138}, {"label": "T-shirt", "probability": 0.999979138}, {"label": "T-shirt", "probability": 0.999979138}, {"label": "T-shirt", "probability": 0.999979138}, {"label": "T-shirt", "probability": 0.999979138}, {"label": "T-shirt", "probability": 0.999979138}, {"label": "T-shirt", "probability": 0.999979138}, {"label": "T-shirt", "probability": 0.999979138}, {"label": "T-shirt", "probability": 0.999979138}, {"label": "T-shirt", "probability": 0.999979138}]]}
C:\Users\root\PycharmProjects\Test_docker\DZ_22(PRO)\PRO>
```

