# Commands for Dockers:

docker build -t myimage .

docker run -d --name mycontainer -p 80:80 myimage

## Check it

You should be able to check it in your Docker container's URL, for example: http://192.168.99.100/items/5?q=somequery or http://127.0.0.1/items/5?q=somequery (or equivalent, using your Docker host).

# Tried:

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| --- | --- | --- |
| Trial Number |  | |
| 01 | **Motive** | Install FROM Unicorn |
| **Dockerfile** | FROM tiangolo/uvicorn-gunicorn-fastapi:python3.7  RUN python -m pip install tensorflow-cpu==2.3.0rc2  RUN python -m pip install Keras==2.4.3  RUN python -m pip install opencv-python  COPY ./app /app |
| **Outcome** | Goes in excited stage. See log 01.txt |
| 02 | **Motive** | Install FROM both Unicorn and Tensorflow |
| **Dockerfile** | FROM tiangolo/uvicorn-gunicorn-fastapi:python3.7  FROM tensorflow/tensorflow:2.0.0-py3  RUN python -m pip install tensorflow-cpu==2.3.0rc2  RUN python -m pip install Keras==2.4.3  RUN python -m pip install opencv-python  COPY ./app /app |
| **Outcome** | After RUN command, container greys out but does not go in excited stage  Server not accessible either |
| 03 | **Motive** | Install FROM Unicorn  I was using RUN python -m pip, now will use run python |
| **Dockerfile** | FROM tiangolo/uvicorn-gunicorn-fastapi:python3.7  RUN pip install tensorflow-cpu==2.3.0rc2  RUN pip install opencv-python  COPY ./app /app |
| **Outcome** | Goes in excited stage. See log 03.txt |
| 04 | **Motive** | Install FROM TensorFlow and install FastAPI and openCV over it. |
| **Dockerfile** | FROM tensorflow/tensorflow  RUN pip install fastapi uvicorn  RUN pip install opencv-python  RUN pip install keras  RUN pip install python-multipart  RUN apt-get update && \  apt-get install libgl1-mesa-glx -y  EXPOSE 80  COPY ./app /app  CMD ["uvicorn", "app.main:app", "--host", "0.0.0.0", "--port", "80"] |
| **Outcome** | 1. Goes in excited stage BUT this time OpenCV error. See log 04xx. 2. Installed libgl1. OpenCV error “Libgl” resolved 3. Installed Keras. Error resolved 4. Edited main.py to add '**/app/**’ before loading model files, fastapi direct link prediction address. 5. Installed python-multipart. Error resolved 6. Use **http://127.0.0.1/predict/loc** |