## Flask, Docker image, Docker Container

We must create a machine learning model, then we save our model (pickle), then we create flask API. After, we are checking the request/response and then we create Docker image and run it on container. Then we perform a request to our model, which is running on container, with data as an input into the model and receive the response with the required information.

After setting up the model and Flask, the following commands are be executed (in this exercise initially port 3000 has been used which then altered to 5000):

docker pull mcr.microsoft.com/powershell

To create an image: docker build -t model:1.0 .

To run a container: docker run -p 5000:3000 model:1.0

Run a container in the background: docker run -d -p 5000:3000 model:1.0

Important: At the end we are sending the request to **localhost:5000 not …:3000!**

**To see running containers:** docker ps

**To stop a container:** docker stop a8628e996aed

**To remove container:** docker rm a8628e996aed

**To see images:** docker images

**To delete an image:** docker image rmi f6134cbfce06