Documentation:

1. Model code
   1. Modularization
      1. data prep code (for incoming test data)
         1. What to do with na’s
         2. Dummy variables
         3. Etc.
      2. Model code – pickle or joblib?
   2. Linting
   3. Testing
   4. Notes: use the test data to hit the API?
2. API
   1. Single vs batch
3. Containerization
   1. Docker
      1. https://xaviervasques.medium.com/quick-install-and-first-use-of-docker-327e88ef88c7
   2. Shell script
4. Optimization
   1. Why use joblib instead of pickle?
      1. It is a more general-purpose serialization library and is compatible with a wide range of Python objects, including custom objects and classes. **joblib is generally faster than pickle for serializing and deserializing large NumPy arrays, due to its more efficient storage and memory-mapping techniques**.
   2. Scaling up
      1. <https://docs.docker.com/reference/cli/docker/volume/create/>
      2. Multiple containers can use the same VOLUME (store data/code there and spin up new containers for incoming events as needed) <https://towardsdatascience.com/build-and-run-a-docker-container-for-your-machine-learning-model-60209c2d7a7f>
   3. Kubernetes

List of files:  
python\_model.txt

python\_tests.txt

python\_api.txt

data.pickle

dockerfile

documentation.pdf

requirements.txt

Kubernetes config.yml ??

Pipeline config

run\_api.sh