# TensorFlow is much easier to install using Anaconda, especially

# on Windows or when using a GPU. Please see the installation

# instructions in INSTALL.md

##### Core scientific packages

jupyter==1.0.0

matplotlib==3.3.4

numpy==1.19.5

pandas==1.2.2

scipy==1.6.0

##### Machine Learning packages

scikit-learn==0.24.1

# Optional: the XGBoost library is only used in chapter 7

xgboost==1.3.3

# Optional: the transformers library is only using in chapter 16

transformers==4.3.2

##### TensorFlow-related packages

# If you have a TF-compatible GPU and you want to enable GPU support, then

# replace tensorflow-serving-api with tensorflow-serving-api-gpu.

# Your GPU must have CUDA Compute Capability 3.5 or higher support, and

# you must install CUDA, cuDNN and more: see tensorflow.org for the detailed

# installation instructions.

tensorflow==2.4.1

# Optional: the TF Serving API library is just needed for chapter 19.

tensorflow-serving-api==2.4.1 # or tensorflow-serving-api-gpu if gpu

tensorboard==2.4.1

tensorboard-plugin-profile==2.4.0

tensorflow-datasets==3.0.0

tensorflow-hub==0.9.0

tensorflow-probability==0.12.1

# Optional: only used in chapter 13.

# NOT AVAILABLE ON WINDOWS

tfx==0.27.0

# Optional: only used in chapter 16.

# NOT AVAILABLE ON WINDOWS

tensorflow-addons==0.12.1

##### Reinforcement Learning library (chapter 18)

# There are a few dependencies you need to install first, check out:

# https://github.com/openai/gym#installing-everything

gym[atari,Box2D]==0.18.0

# On Windows, install atari\_py using:

# pip install --no-index -f https://github.com/Kojoley/atari-py/releases atari\_py

tf-agents==0.7.1

##### Image manipulation

Pillow==8.2.0

graphviz==0.16

opencv-python==4.5.1.48

pyglet==1.5.0

#pyvirtualdisplay # needed in chapter 16, if on a headless server

# (i.e., without screen, e.g., Colab or VM)

##### Additional utilities

# Efficient jobs (caching, parallelism, persistence)

joblib==0.14.1

# Easy http requests

requests==2.25.1

# Nice utility to diff Jupyter Notebooks.

nbdime==2.1.0

# May be useful with Pandas for complex "where" clauses (e.g., Pandas

# tutorial).

numexpr==2.7.2

# Optional: these libraries can be useful in the classification chapter,

# exercise 4.

nltk==3.5

urlextract==1.2.0

# Optional: these libraries are only used in chapter 16

ftfy==5.8

# Optional: tqdm displays nice progress bars, ipywidgets for tqdm's notebook support

tqdm==4.56.1

ipywidgets==7.6.3