

DS Automation Assignment

Using our prepared churn data from week 2:

- use pycaret to find an ML algorithm that performs best on the data
 - Choose a metric you think is best to use for finding the best model; by default, it is accuracy but it could be AUC, precision, recall, etc. The week 3 FTE has some information on these different metrics.
- save the model to disk
- create a Python script/file/module with a function that takes a pandas dataframe as an input and returns the probability of churn for each row in the dataframe
 - your Python file/function should print out the predictions for new data (new_churn_data.csv)
 - the true values for the new data are [1, 0, 0, 1, 0] if you're interested
- test your Python module and function with the new data, new_churn_data.csv
- write a short summary of the process and results at the end of this notebook
- upload this Jupyter Notebook and Python file to a Github repository, and turn in a link to the repository in the week 5 assignment dropbox

Optional challenges:

- return the probability of churn for each new prediction, and the percentile where that prediction is in the distribution of probability predictions from the training dataset (e.g. a high probability of churn like 0.78 might be at the 90th percentile)
- use other autoML packages, such as TPOT, H2O, MLBox, etc, and compare performance and features with pycaret
- create a class in your Python module to hold the functions that you created
- accept user input to specify a file using a tool such as Python's `input()` function, the `click` package for command-line arguments, or a GUI
- Use the unmodified churn data (new_unmodified_churn_data.csv) in your Python script. This will require adding the same preprocessing steps from week 2 since this data is like the original unmodified dataset from week 1.

In [2]: `import pandas as pd`

```
df = pd.read_csv('data/prepped_churn_data.csv')
```

Out[2]:

	customerID	tenure	PhoneService	Contract	PaymentMethod	MonthlyCharges	TotalCharge
0	5375	1	0	0	2	29.85	29.8
1	3962	34	1	1	3	56.95	1889.5
2	2564	2	1	0	3	53.85	108.1
3	5535	45	0	1	0	42.30	1840.7
4	6511	2	1	0	2	70.70	151.6

	customerID	tenure	PhoneService	Contract	PaymentMethod	MonthlyCharges	TotalCharge
...
7038	4853	24	1	1	3	84.80	1990.5
7039	1525	72	1	1	1	103.20	7362.9
7040	3367	11	0	0	2	29.60	346.4
7041	5934	4	1	0	3	74.40	306.6
7042	2226	66	1	2	0	105.65	6844.5

```
In [12]: !conda install -c conda-forge pycaret --force-reinstall

Collecting package metadata (current_repodata.json): ...working... done
e
Solving environment: ...working... done

## Package Plan ##

  environment location: C:\Users\Fritz\anaconda3

  added / updated specs:
    - pycaret

The following packages will be UPDATED:

      certifi                pkgs/main::certifi-2021.10.8-py38haa9~ --> conda-
conda-forge::certifi-2021.10.8-py38haa244fe_1
      conda                  pkgs/main::conda-4.10.3-py38haa95532_0 --> conda-
conda-forge::conda-4.10.3-py38haa244fe_4

The following packages will be SUPERSEDED by a higher-priority channel:

      ca-certificates        pkgs/main::ca-certificates-2021.10.26~ --> conda-
conda-forge::ca-certificates-2021.10.8-h5b45459_0
      openssl                pkgs/main::openssl-1.1.1l-h2bbff1b_0 --> conda-
conda-forge::openssl-1.1.1l-h8ffe710_0

Preparing transaction: ...working... done
Verifying transaction: ...working... done
Executing transaction: ...working... done

WARNING conda.gateways.disk.delete:unlink_or_rename_to_trash(143): Cou
ld not remove or rename C:\Users\Fritz\anaconda3\Library\bin\libcrypto
-1_1-x64.dll.c~. Please remove this file manually (you may need to re
boot to free file handles)
WARNING conda.gateways.disk.delete:unlink_or_rename_to_trash(143): Cou
ld not remove or rename C:\Users\Fritz\anaconda3\Library\bin\libssl-1_
1-x64.dll.c~. Please remove this file manually (you may need to reboo
t to free file handles)

Collecting package metadata (current_repodata.json): ...working... don
e

DEBUG menuinst_win32:__init__(198): Menu: name: 'Anaconda${PY_VER} ${P
LATFORM}', prefix: 'C:\Users\Fritz\anaconda3', env_name: 'None', mode:
'user', used_mode: 'user'

Solving environment: ...working... done

## Package Plan ##

  environment location: C:\Users\Fritz\anaconda3
```

added / updated specs:
- conda

The following packages will be downloaded:

package	build	
-----	-----	
_anaconda_depends-2021.11	py38_0	6 KB
_py-xgboost-mutex-2.0	cpu_0	12 KB
alembic-1.7.5	pyhd3eb1b0_0	140 KB
anaconda-client-1.9.0	py38haa95532_0	170 KB
anaconda-project-0.10.2	pyhd3eb1b0_0	218 KB
appdirs-1.4.4	pyhd3eb1b0_0	12 KB
arrow-0.13.1	py38_0	81 KB
astroid-2.6.6	py38haa95532_0	314 KB
astropy-4.3.1	py38hc7d831d_0	6.1 MB
attrs-21.2.0	pyhd3eb1b0_0	46 KB
autopep8-1.5.7	pyhd3eb1b0_0	43 KB
babel-2.9.1	pyhd3eb1b0_0	5.5 MB
beautifulsoup4-4.10.0	pyh06a4308_0	85 KB
binaryornot-0.4.4	pyhd3eb1b0_1	351 KB
bitarray-2.3.0	py38h2bbff1b_1	141 KB
bleach-4.0.0	pyhd3eb1b0_0	113 KB
bokeh-2.4.1	py38haa95532_0	7.6 MB
ca-certificates-2021.10.26	haa95532_2	115 KB
catalogue-2.0.4	py38haa95532_0	35 KB
catboost-0.26.1	py38haa95532_0	28.8 MB
certifi-2021.10.8	py38haa95532_0	152 KB
cffi-1.15.0	py38h2bbff1b_0	223 KB
cfitsio-3.470	he774522_6	512 KB
charset-normalizer-2.0.4	pyhd3eb1b0_0	35 KB
cloudpickle-2.0.0	pyhd3eb1b0_0	32 KB
comtypes-1.1.10	py38haa95532_1002	236 KB
conda-pack-0.6.0	pyhd3eb1b0_0	29 KB
configparser-5.0.2	pyhd3eb1b0_0	22 KB
confuse-1.5.0	pyhd3eb1b0_0	23 KB
contextlib2-0.6.0.post1	pyhd3eb1b0_0	13 KB
cookiecutter-1.7.2	pyhd3eb1b0_0	86 KB
cryptography-3.4.8	py38h71e12ea_0	637 KB
curl-7.78.0	h86230a5_0	132 KB
cymem-2.0.5	py38hd77b12b_0	38 KB
cython-blis-0.7.4	py38h2bbff1b_1	1.7 MB
daal4py-2021.3.0	py38h757b272_0	7.6 MB
dal-2021.3.0	haa95532_564	24.4 MB
dask-2021.10.0	pyhd3eb1b0_0	19 KB
dask-core-2021.10.0	pyhd3eb1b0_0	718 KB
dataclasses-0.8	pyh6d0b6a4_7	8 KB
debugpy-1.5.1	py38hd77b12b_0	2.6 MB
decorator-5.1.0	pyhd3eb1b0_0	14 KB
diff-match-patch-20200713	pyhd3eb1b0_0	35 KB
distributed-2021.10.0	py38haa95532_0	1010 KB
docker-py-4.4.1	py38haa95532_5	188 KB
docker-pycreds-0.4.0	pyhd3eb1b0_0	12 KB
docutils-0.17.1	py38haa95532_1	696 KB

et_xmlfile-1.1.0		py38haa95532_0	10 KB
filelock-3.3.1		pyhd3eb1b0_1	12 KB
flake8-3.9.2		pyhd3eb1b0_0	129 KB
fonttools-4.25.0		pyhd3eb1b0_0	632 KB
fsspec-2021.10.1		pyhd3eb1b0_0	96 KB
gensim-4.0.1		py38hd77b12b_0	18.2 MB
gevent-21.8.0		py38h2bbff1b_1	1.4 MB
gitdb-4.0.7		pyhd3eb1b0_0	50 KB
gitpython-3.1.18		pyhd3eb1b0_1	125 KB
greenlet-1.1.1		py38hd77b12b_0	82 KB
heapdict-1.0.1		pyhd3eb1b0_0	8 KB
html5lib-1.1		pyhd3eb1b0_0	91 KB
htmlmin-0.1.12		pyhd3eb1b0_1	24 KB
idna-3.2		pyhd3eb1b0_0	48 KB
imagecodecs-2021.8.26		py38half97ea_0	6.2 MB
imagehash-4.2.1		pyhd3eb1b0_0	285 KB
importlib-metadata-4.8.1		py38haa95532_0	40 KB
importlib_metadata-4.8.1		hd3eb1b0_0	11 KB
inflection-0.5.1		py38haa95532_0	12 KB
intel-openmp-2021.4.0		haa95532_3556	2.2 MB
intervaltree-3.1.0		pyhd3eb1b0_0	25 KB
ipykernel-6.4.1		py38haa95532_1	192 KB
ipython-7.29.0		py38hd4e2768_0	1017 KB
ipywidgets-7.6.5		pyhd3eb1b0_1	105 KB
isort-5.9.3		pyhd3eb1b0_0	83 KB
itsdangerous-2.0.1		pyhd3eb1b0_0	18 KB
jdcal-1.4.1		pyhd3eb1b0_0	10 KB
jedi-0.18.0		py38haa95532_1	910 KB
jinja2-time-0.2.0		pyhd3eb1b0_2	17 KB
joblib-1.1.0		pyhd3eb1b0_0	211 KB
jpeg-9d		h2bbff1b_0	283 KB
json5-0.9.6		pyhd3eb1b0_0	21 KB
jsonschema-3.2.0		pyhd3eb1b0_2	47 KB
jupyter_core-4.9.1		py38haa95532_0	91 KB
jupyterlab-3.2.1		pyhd3eb1b0_1	3.6 MB
jupyterlab_server-2.8.2		pyhd3eb1b0_0	46 KB
keyring-23.1.0		py38haa95532_0	77 KB
krb5-1.19.2		h5b6d351_0	697 KB
lerc-3.0		hd77b12b_0	120 KB
libcurl-7.78.0		h86230a5_0	294 KB
libdeflate-1.8		h2bbff1b_5	46 KB
libprotobuf-3.17.2		h23ce68f_1	1.9 MB
libwebp-1.2.0		h2bbff1b_0	643 KB
libxgboost-1.3.3		hd77b12b_0	1.3 MB
libxml2-2.9.12		h0ad7f3c_0	1.5 MB
lightgbm-3.2.1		py38hd77b12b_0	753 KB
llvmlite-0.37.0		py38h23ce68f_1	13.3 MB
lz4-c-1.9.3		h2bbff1b_1	132 KB
mako-1.1.4		pyhd3eb1b0_0	61 KB
matplotlib-inline-0.1.2		pyhd3eb1b0_2	12 KB
missingno-0.4.2		pyhd3eb1b0_1	15 KB
mkl-2021.4.0		haa95532_640	114.9 MB
mkl-service-2.4.0		py38h2bbff1b_0	51 KB
mkl_fft-1.3.1		py38h277e83a_0	139 KB
mkl_random-1.2.2		py38hf11a4ad_0	225 KB
more-itertools-8.10.0		pyhd3eb1b0_0	47 KB

munkres-1.1.4		py_0	13 KB
murhash-1.0.5		py38hd77b12b_0	24 KB
nbconvert-6.1.0		py38haa95532_0	500 KB
networkx-2.6.3		pyhd3eb1b0_0	1.3 MB
nlTK-3.6.5		pyhd3eb1b0_0	979 KB
notebook-6.4.6		py38haa95532_0	4.5 MB
numba-0.54.1		py38hf11a4ad_0	3.3 MB
numpy-1.20.3		py38ha4e8547_0	23 KB
numpy-base-1.20.3		py38hc2deb75_0	4.2 MB
olefile-0.46		pyhd3eb1b0_0	34 KB
openjpeg-2.4.0		h4fc8c34_0	219 KB
openssl-1.1.11		h2bbff1b_0	4.8 MB
packaging-21.0		pyhd3eb1b0_0	36 KB
parso-0.8.2		pyhd3eb1b0_0	69 KB
path-16.0.0		py38haa95532_0	38 KB
path.py-12.5.0		hd3eb1b0_0	4 KB
pathlib2-2.3.6		py38haa95532_2	36 KB
pathy-0.6.0		pyhd3eb1b0_0	36 KB
patsy-0.5.2		py38haa95532_0	275 KB
phik-0.11.2		pyhd3eb1b0_1	538 KB
pillow-8.4.0		py38hd45dc43_0	911 KB
pip-21.2.2		py38haa95532_0	1.9 MB
pkginfo-1.7.1		py38haa95532_0	60 KB
plotly-5.1.0		pyhd3eb1b0_0	2.7 MB
poyo-0.5.0		pyhd3eb1b0_0	17 KB
preshed-3.0.5		py38h6c2663c_4	87 KB
prometheus_client-0.12.0		pyhd3eb1b0_0	47 KB
prompt-toolkit-3.0.20		pyhd3eb1b0_0	259 KB
prompt_toolkit-3.0.20		hd3eb1b0_0	12 KB
protobuf-3.17.2		py38hd77b12b_0	257 KB
py-xgboost-1.3.3		py38haa95532_0	139 KB
pycodestyle-2.7.0		pyhd3eb1b0_0	41 KB
pycparser-2.21		pyhd3eb1b0_0	94 KB
pycurl-7.44.1		py38hcd4344a_1	67 KB
pydocstyle-6.1.1		pyhd3eb1b0_0	36 KB
pyerfa-2.0.0		py38h2bbff1b_0	360 KB
pyflakes-2.3.1		pyhd3eb1b0_0	60 KB
pygments-2.10.0		pyhd3eb1b0_0	725 KB
pylint-2.9.6		py38haa95532_1	509 KB
pyls-spyder-0.4.0		pyhd3eb1b0_0	11 KB
pynndescent-0.5.4		pyhd3eb1b0_0	43 KB
pyodbc-4.0.31		py38hd77b12b_0	68 KB
pyopenssl-21.0.0		pyhd3eb1b0_1	49 KB
pyparsing-3.0.4		pyhd3eb1b0_0	81 KB
pyrsistent-0.18.0		py38h196d8e1_0	89 KB
pytest-6.2.4		py38haa95532_2	440 KB
python-dateutil-2.8.2		pyhd3eb1b0_0	233 KB
python-lsp-black-1.0.0		pyhd3eb1b0_0	8 KB
python-lsp-jsonrpc-1.0.0		pyhd3eb1b0_0	10 KB
python-lsp-server-1.2.4		pyhd3eb1b0_0	41 KB
python-slugify-5.0.2		pyhd3eb1b0_0	13 KB
pytz-2021.3		pyhd3eb1b0_0	171 KB
pyyaml-6.0		py38h2bbff1b_1	146 KB
pyzmq-22.2.1		py38hd77b12b_1	622 KB
qdarkstyle-3.0.2		pyhd3eb1b0_0	337 KB
qstylizer-0.1.10		pyhd3eb1b0_0	17 KB

	qtawesome-1.0.3		pyhd3eb1b0_0	761 KB
	qtconsole-5.1.1		pyhd3eb1b0_0	98 KB
	qtpy-1.10.0		pyhd3eb1b0_0	35 KB
	regex-2021.8.3		py38h2bbff1b_0	302 KB
	requests-2.26.0		pyhd3eb1b0_0	59 KB
	retrying-1.3.3		pyhd3eb1b0_2	14 KB
	rope-0.21.1		pyhd3eb1b0_0	129 KB
	scikit-image-0.18.3		py38hf11a4ad_0	9.1 MB
	scikit-learn-1.0.1		py38hf11a4ad_0	5.1 MB
	scikit-learn-intelex-2021.3.0		py38haa95532_0	38 KB
	scipy-1.7.1		py38hbe87c03_2	13.8 MB
	send2trash-1.8.0		pyhd3eb1b0_1	19 KB
	setuptools-58.0.4		py38haa95532_0	779 KB
	shellingham-1.3.1		pyhd3eb1b0_0	12 KB
	simplejson-3.17.3		py38h2bbff1b_2	99 KB
	singledispatch-3.7.0		pyhd3eb1b0_1001	12 KB
	smmap-4.0.0		pyhd3eb1b0_0	23 KB
	sortedcontainers-2.4.0		pyhd3eb1b0_0	26 KB
	soupsieve-2.3.1		pyhd3eb1b0_0	34 KB
	sphinx-4.2.0		pyhd3eb1b0_1	1.2 MB
	sphinxcontrib-htmlhelp-2.0.0		pyhd3eb1b0_0	32 KB
	sphinxcontrib-serializinghtml-1.1.5		pyhd3eb1b0_0	25 KB
KB				
	spyder-5.1.5		py38haa95532_1	9.4 MB
	spyder-kernels-2.1.3		py38haa95532_0	113 KB
	sqlalchemy-1.4.22		py38h2bbff1b_0	1.8 MB
	sqlite-3.36.0		h2bbff1b_0	780 KB
	sqlparse-0.4.1		py_0	35 KB
	srsly-2.4.1		py38hd77b12b_0	466 KB
	sympy-1.9		py38haa95532_0	9.3 MB
	tabulate-0.8.9		py38haa95532_0	56 KB
	tangled-up-in-unicode-0.1.0		pyhd3eb1b0_0	689 KB
	tbb-2021.4.0		h59b6b97_0	148 KB
	tbb4py-2021.4.0		py38h59b6b97_0	71 KB
	tblib-1.7.0		pyhd3eb1b0_0	15 KB
	tenacity-8.0.1		py38haa95532_0	39 KB
	testpath-0.5.0		pyhd3eb1b0_0	81 KB
	text-unidecode-1.3		pyhd3eb1b0_0	65 KB
	threadpoolctl-2.2.0		pyh0d69192_0	16 KB
	tifffile-2021.7.2		pyhd3eb1b0_2	135 KB
	tinycss-0.4		pyhd3eb1b0_1002	39 KB
	tk-8.6.11		h2bbff1b_0	3.3 MB
	toolz-0.11.2		pyhd3eb1b0_0	49 KB
	tqdm-4.62.3		pyhd3eb1b0_1	83 KB
	traitlets-5.1.1		pyhd3eb1b0_0	84 KB
	typed-ast-1.4.3		py38h2bbff1b_1	135 KB
	typer-0.3.2		pyhd3eb1b0_0	24 KB
	typing-extensions-3.10.0.2		hd3eb1b0_0	12 KB
	typing_extensions-3.10.0.2		pyh06a4308_0	31 KB
	unidecode-1.2.0		pyhd3eb1b0_0	155 KB
	urllib3-1.26.7		pyhd3eb1b0_0	111 KB
	waitress-2.0.0		pyhd3eb1b0_0	47 KB
	wasabi-0.8.2		pyhd3eb1b0_0	23 KB
	watchdog-2.1.3		py38haa95532_0	110 KB
	wcwidth-0.2.5		pyhd3eb1b0_0	26 KB
	websocket-client-0.58.0		py38haa95532_4	70 KB

werkzeug-2.0.2		pyhd3eb1b0_0	224 KB
wheel-0.37.0		pyhd3eb1b0_1	33 KB
whichcraft-0.6.1		pyhd3eb1b0_0	11 KB
wincertstore-0.2		py38haa95532_2	15 KB
xgboost-1.3.3		py38haa95532_0	23 KB
xlswriter-3.0.2		pyhd3eb1b0_0	111 KB
xlwings-0.24.9		py38haa95532_0	891 KB
zipp-3.6.0		pyhd3eb1b0_0	17 KB
zope.interface-5.4.0		py38h2bbff1b_0	305 KB
zstd-1.4.9		h19a0ad4_0	478 KB

Total:			355.7 MB

The following NEW packages will be INSTALLED:

arrow	pkgs/main/win-64::arrow-0.13.1-py38_0
binaryornot	pkgs/main/noarch::binaryornot-0.4.4-pyhd3eb1b0_1
cfitsio	pkgs/main/win-64::cfitsio-3.470-he774522_6
charset-normalizer	pkgs/main/noarch::charset-normalizer-2.0.4-pyhd3eb1b0_0
conda-pack	pkgs/main/noarch::conda-pack-0.6.0-pyhd3eb1b0_0
cookiecutter	pkgs/main/noarch::cookiecutter-1.7.2-pyhd3eb1b0_0
daal4py	pkgs/main/win-64::daal4py-2021.3.0-py38h757b272_0
dal	pkgs/main/win-64::dal-2021.3.0-haa95532_564
debugpy	pkgs/main/win-64::debugpy-1.5.1-py38hd77b12b_0
fonttools	pkgs/main/noarch::fonttools-4.25.0-pyhd3eb1b0_0
inflection	pkgs/main/win-64::inflection-0.5.1-py38haa95532_0
jinja2-time	pkgs/main/noarch::jinja2-time-0.2.0-pyhd3eb1b0_2
libwebp	pkgs/main/win-64::libwebp-1.2.0-h2bbff1b_0
matplotlib-inline	pkgs/main/noarch::matplotlib-inline-0.1.2-pyhd3eb1b0_2
munkres	pkgs/main/noarch::munkres-1.1.4-py_0
poyo	pkgs/main/noarch::poyo-0.5.0-pyhd3eb1b0_0
python-lsp-black	pkgs/main/noarch::python-lsp-black-1.0.0-pyhd3eb1b0_0
python-lsp-jsonrpc	pkgs/main/noarch::python-lsp-jsonrpc-1.0.0-pyhd3eb1b0_0
python-lsp-server	pkgs/main/noarch::python-lsp-server-1.2.4-pyhd3eb1b0_0
python-slugify	pkgs/main/noarch::python-slugify-5.0.2-pyhd3eb1b0_0
qstylizer	pkgs/main/noarch::qstylizer-0.1.10-pyhd3eb1b0_0
scikit-learn-inte~	pkgs/main/win-64::scikit-learn-intele~2021.3.0-py38haa95532_0
tbb4py	pkgs/main/win-64::tbb4py-2021.4.0-py38h59b6b97_0
text-unidecode	pkgs/main/noarch::text-unidecode-1.3-pyhd3eb1b0_0
tinycss	pkgs/main/noarch::tinycss-0.4-pyhd3eb1b0_1002
typing-extensions	pkgs/main/noarch::typing-extensions-3.10.0.2-hd3eb1b0_0
unidecode	pkgs/main/noarch::unidecode-1.2.0-pyhd3eb1b0_0
whichcraft	pkgs/main/noarch::whichcraft-0.6.1-pyhd3eb1b0_0

The following packages will be REMOVED:

gmpy2-2.1.0rc1-py38hb63f22f_0
importlib_resources-5.4.0-pyhd8ed1ab_0


```

jupyter-packaging-0.7.12-pyhd3eb1b0_0
libllvm9-9.0.1-default_hcbf89dc_4
libsodium-1.0.18-h62dcd97_0
mpc-1.2.1-h54e1faf_0
mpfr-4.1.0-h8d14728_1
mpir-3.0.0-he025d50_1002
pandoc-2.12-haa95532_0
pathtools-0.1.2-py_1
pybind11-abi-4-hd8ed1ab_3
pyls-black-0.4.6-hd3eb1b0_0
python-jsonrpc-server-0.4.0-py_0
python-language-server-0.36.2-pyhd3eb1b0_0
zeromq-4.3.3-ha925a31_3

```

The following packages will be UPDATED:

```

_anaconda_depends                2020.07-py38_0 --> 2021.1
1-py38_0
  anaconda-client                 1.7.2-py38_0 --> 1.9.0-
py38haa95532_0
  anaconda-project               0.9.1-pyhd3eb1b0_1 --> 0.10.2
-pyhd3eb1b0_0
  astroid                       2.5-py38haa95532_1 --> 2.6.6-
py38haa95532_0
  astropy                      4.2.1-py38h2bbff1b_1 --> 4.3.1-
py38hc7d831d_0
  attrs                         20.3.0-pyhd3eb1b0_0 --> 21.2.0
-pyhd3eb1b0_0
  autopep8                     1.5.6-pyhd3eb1b0_0 --> 1.5.7-
pyhd3eb1b0_0
  babel                        2.9.0-pyhd3eb1b0_0 --> 2.9.1-
pyhd3eb1b0_0
  beautifulsoup4              4.9.3-pyha847dfd_0 --> 4.10.0
-pyh06a4308_0
  bitarray                    1.9.2-py38h2bbff1b_1 --> 2.3.0-
py38h2bbff1b_1
  bleach                       3.3.0-pyhd3eb1b0_0 --> 4.0.0-
pyhd3eb1b0_0
  bokeh                       2.3.2-py38haa95532_0 --> 2.4.1-
py38haa95532_0
  ca-certificates             conda-forge::ca-certificates-2021.10.~ --> pkgs/m
ain::ca-certificates-2021.10.26-haa95532_2
  cffi                        1.14.5-py38hcd4344a_0 --> 1.15.0
-py38h2bbff1b_0
  cloudpickle                 1.6.0-py_0 --> 2.0.0-
pyhd3eb1b0_0
  comtypes                   1.1.9-py38haa95532_1002 --> 1.1.10
-py38haa95532_1002
  cryptography               3.4.7-py38h71e12ea_0 --> 3.4.8-
py38h71e12ea_0
  curl                       7.71.1-h2a8f88b_1 --> 7.78.0
-h86230a5_0
  dask                      2021.4.0-pyhd3eb1b0_0 --> 2021.1
0.0-pyhd3eb1b0_0
  dask-core                  2021.4.0-pyhd3eb1b0_0 --> 2021.1
0.0-pyhd3eb1b0_0

```

```

dataclasses          conda-forge::dataclasses-0.8-pyhc8e2a~ --> pkgs/m
ain::dataclasses-0.8-pyh6d0b6a4_7
decorator            5.0.6-pyhd3eb1b0_0 --> 5.1.0-
pyhd3eb1b0_0
distributed          2021.4.0-py38haa95532_0 --> 2021.1
0.0-py38haa95532_0
docutils             0.17-py38haa95532_1 --> 0.17.1
-py38haa95532_1
et_xmlfile           pkgs/main/noarch::et_xmlfile-1.0.1-py~ --> pkgs/m
ain/win-64::et_xmlfile-1.1.0-py38haa95532_0
filelock             3.0.12-pyhd3eb1b0_1 --> 3.3.1-
pyhd3eb1b0_1
flake8               3.9.0-pyhd3eb1b0_0 --> 3.9.2-
pyhd3eb1b0_0
fsspec               0.9.0-pyhd3eb1b0_0 --> 2021.1
0.1-pyhd3eb1b0_0
gensim               conda-forge::gensim-3.8.3-py38h7ae756~ --> pkgs/m
ain::gensim-4.0.1-py38hd77b12b_0
gevent               21.1.2-py38h2bbff1b_1 --> 21.8.0
-py38h2bbff1b_1
greenlet             1.0.0-py38hd77b12b_2 --> 1.1.1-
py38hd77b12b_0
idna                 2.10-pyhd3eb1b0_0 --> 3.2-py
hd3eb1b0_0
imagecodecs          2021.3.31-py38h5da4933_0 --> 2021.
8.26-py38ha1f97ea_0
importlib-metadata   3.10.0-py38haa95532_0 --> 4.8.1-
py38haa95532_0
importlib_metadata   3.10.0-hd3eb1b0_0 --> 4.8.1-
hd3eb1b0_0
intel-openmp         2021.2.0-haa95532_616 --> 2021.
4.0-haa95532_3556
ipykernel            5.3.4-py38h5ca1d4c_0 --> 6.4.1-
py38haa95532_1
ipython              7.22.0-py38hd4e2768_0 --> 7.29.0
-py38hd4e2768_0
ipywidgets           7.6.3-pyhd3eb1b0_1 --> 7.6.5-
pyhd3eb1b0_1
isort                5.8.0-pyhd3eb1b0_0 --> 5.9.3-
pyhd3eb1b0_0
itsdangerous         1.1.0-pyhd3eb1b0_0 --> 2.0.1-
pyhd3eb1b0_0
jedi                 0.17.2-py38haa95532_1 --> 0.18.0
-py38haa95532_1
joblib               1.0.1-pyhd3eb1b0_0 --> 1.1.0-
pyhd3eb1b0_0
jpeg                 9b-hb83a4c4_2 --> 9d-h2b
bffb1b_0
json5                0.9.5-py_0 --> 0.9.6-
pyhd3eb1b0_0
jupyter_core         4.7.1-py38haa95532_0 --> 4.9.1-
py38haa95532_0
jupyterlab           3.0.14-pyhd3eb1b0_1 --> 3.2.1-
pyhd3eb1b0_1
jupyterlab_server    2.4.0-pyhd3eb1b0_0 --> 2.8.2-
pyhd3eb1b0_0

```

keyring	22.3.0-py38haa95532_0 --> 23.1.0
-py38haa95532_0	
krb5	1.18.2-hc04afaa_0 --> 1.19.2
-h5b6d351_0	
lerc	2.2.1-hd77b12b_0 --> 3.0-hd
77b12b_0	
libcurl	7.71.1-h2a8f88b_1 --> 7.78.0
-h86230a5_0	
libdeflate	1.7-h2bbff1b_5 --> 1.8-h2
bbff1b_5	
libxml2	2.9.10-hb89e7f3_3 --> 2.9.12
-h0ad7f3c_0	
llvmlite	0.36.0-py38h34b8924_4 --> 0.37.0
-py38h23ce68f_1	
lz4-c	1.9.3-h2bbff1b_0 --> 1.9.3-
h2bbff1b_1	
mkl	2021.2.0-haa95532_296 --> 2021.
4.0-haa95532_640	
mkl-service	2.3.0-py38h2bbff1b_1 --> 2.4.0-
py38h2bbff1b_0	
mkl_fft	1.3.0-py38h277e83a_2 --> 1.3.1-
py38h277e83a_0	
mkl_random	1.2.1-py38hf11a4ad_2 --> 1.2.2-
py38hf11a4ad_0	
more-itertools	8.7.0-pyhd3eb1b0_0 --> 8.10.0
-pyhd3eb1b0_0	
nbconvert	6.0.7-py38_0 --> 6.1.0-
py38haa95532_0	
networkx	2.5-py_0 --> 2.6.3-
pyhd3eb1b0_0	
nlTK	3.6.1-pyhd3eb1b0_0 --> 3.6.5-
pyhd3eb1b0_0	
notebook	6.3.0-py38haa95532_0 --> 6.4.6-
py38haa95532_0	
numba	0.53.1-py38hf11a4ad_0 --> 0.54.1
-py38hf11a4ad_0	
numpy	1.20.1-py38h34a8a5c_0 --> 1.20.3
-py38ha4e8547_0	
numpy-base	1.20.1-py38haf7ebc8_0 --> 1.20.3
-py38hc2deb75_0	
openjpeg	2.3.0-h5ec785f_1 --> 2.4.0-
h4fc8c34_0	
parso	0.7.0-py_0 --> 0.8.2-
pyhd3eb1b0_0	
path	15.1.2-py38haa95532_0 --> 16.0.0
-py38haa95532_0	
pathlib2	2.3.5-py38haa95532_2 --> 2.3.6-
py38haa95532_2	
patsy	0.5.1-py38_0 --> 0.5.2-
py38haa95532_0	
pillow	8.2.0-py38h4fa10fc_0 --> 8.4.0-
py38hd45dc43_0	
pip	21.0.1-py38haa95532_0 --> 21.2.2
-py38haa95532_0	
pkginfo	1.7.0-py38haa95532_0 --> 1.7.1-
py38haa95532_0	

prometheus_client	0.10.1-pyhd3eb1b0_0 --> 0.12.0
-pyhd3eb1b0_0	
prompt-toolkit	3.0.17-pyh06a4308_0 --> 3.0.20
-pyhd3eb1b0_0	
prompt_toolkit	3.0.17-hd3eb1b0_0 --> 3.0.20
-hd3eb1b0_0	
pycodestyle	2.6.0-pyhd3eb1b0_0 --> 2.7.0-
pyhd3eb1b0_0	
pycparser	2.20-py_2 --> 2.21-p
yhd3eb1b0_0	
pycurl	7.43.0.6-py38h7a1dbc1_0 --> 7.44.1
-py38hcd4344a_1	
pydocstyle	6.0.0-pyhd3eb1b0_0 --> 6.1.1-
pyhd3eb1b0_0	
pyerfa	1.7.3-py38h2bbff1b_0 --> 2.0.0-
py38h2bbff1b_0	
pyflakes	2.2.0-pyhd3eb1b0_0 --> 2.3.1-
pyhd3eb1b0_0	
pygments	2.8.1-pyhd3eb1b0_0 --> 2.10.0
-pyhd3eb1b0_0	
pylint	2.7.4-py38haa95532_1 --> 2.9.6-
py38haa95532_1	
pyls-spyder	0.3.2-pyhd3eb1b0_0 --> 0.4.0-
pyhd3eb1b0_0	
pyodbc	4.0.30-py38ha925a31_0 --> 4.0.31
-py38hd77b12b_0	
pyopenssl	20.0.1-pyhd3eb1b0_1 --> 21.0.0
-pyhd3eb1b0_1	
pyparsing	2.4.7-pyhd3eb1b0_0 --> 3.0.4-
pyhd3eb1b0_0	
pyrsistent	0.17.3-py38he774522_0 --> 0.18.0
-py38h196d8e1_0	
pytest	6.2.3-py38haa95532_2 --> 6.2.4-
py38haa95532_2	
python-dateutil	2.8.1-pyhd3eb1b0_0 --> 2.8.2-
pyhd3eb1b0_0	
pytz	2021.1-pyhd3eb1b0_0 --> 2021.3
-pyhd3eb1b0_0	
pyyaml	5.4.1-py38h2bbff1b_1 --> 6.0-py
38h2bbff1b_1	
pyzmq	20.0.0-py38hd77b12b_1 --> 22.2.1
-py38hd77b12b_1	
qdarkstyle	2.8.1-py_0 --> 3.0.2-
pyhd3eb1b0_0	
qtawesome	1.0.2-pyhd3eb1b0_0 --> 1.0.3-
pyhd3eb1b0_0	
qtconsole	5.0.3-pyhd3eb1b0_0 --> 5.1.1-
pyhd3eb1b0_0	
qtpy	1.9.0-py_0 --> 1.10.0
-pyhd3eb1b0_0	
regex	2021.4.4-py38h2bbff1b_0 --> 2021.
8.3-py38h2bbff1b_0	
requests	2.25.1-pyhd3eb1b0_0 --> 2.26.0
-pyhd3eb1b0_0	
rope	0.18.0-py_0 --> 0.21.1
-pyhd3eb1b0_0	

```

scikit-image                                0.18.1-py38hf11a4ad_0 --> 0.18.3
-py38hf11a4ad_0
scikit-learn                                0.24.1-py38hf11a4ad_0 --> 1.0.1-
py38hf11a4ad_0
scipy                                         1.6.2-py38h66253e8_1 --> 1.7.1-
py38hbe87c03_2
send2trash                                   1.5.0-pyhd3eb1b0_1 --> 1.8.0-
pyhd3eb1b0_1
setuptools                                   52.0.0-py38haa95532_0 --> 58.0.4
-py38haa95532_0
singledispatch                              3.6.1-pyhd3eb1b0_1001 --> 3.7.0-
pyhd3eb1b0_1001
smmap                                         conda-forge::smmap-3.0.5-pyh44b312d_0 --> pkgs/m
ain::smmap-4.0.0-pyhd3eb1b0_0
sortedcontainers                             2.3.0-pyhd3eb1b0_0 --> 2.4.0-
pyhd3eb1b0_0
soupsieve                                    2.2.1-pyhd3eb1b0_0 --> 2.3.1-
pyhd3eb1b0_0
sphinx                                        4.0.1-pyhd3eb1b0_0 --> 4.2.0-
pyhd3eb1b0_1
sphinxcontrib-htm~                          1.0.3-pyhd3eb1b0_0 --> 2.0.0-
pyhd3eb1b0_0
sphinxcontrib-ser~                          1.1.4-pyhd3eb1b0_0 --> 1.1.5-
pyhd3eb1b0_0
spyder                                        4.2.5-py38haa95532_0 --> 5.1.5-
py38haa95532_1
spyder-kernels                              1.10.2-py38haa95532_0 --> 2.1.3-
py38haa95532_0
sqlalchemy                                   1.4.7-py38h2bbff1b_0 --> 1.4.22
-py38h2bbff1b_0
sqlite                                        3.35.4-h2bbff1b_0 --> 3.36.0
-h2bbff1b_0
sympy                                         1.8-py38haa95532_0 --> 1.9-py
38haa95532_0
tbb                                           2020.3-h74a9793_0 --> 2021.
4.0-h59b6b97_0
testpath                                     0.4.4-pyhd3eb1b0_0 --> 0.5.0-
pyhd3eb1b0_0
threadpoolctl                               2.1.0-pyh5ca1d4c_0 --> 2.2.0-
pyh0d69192_0
tifffile                                     2021.4.8-pyhd3eb1b0_2 --> 2021.
7.2-pyhd3eb1b0_2
tk                                            8.6.10-he774522_0 --> 8.6.11
-h2bbff1b_0
toolz                                         0.11.1-pyhd3eb1b0_0 --> 0.11.2
-pyhd3eb1b0_0
tqdm                                         4.59.0-pyhd3eb1b0_1 --> 4.62.3
-pyhd3eb1b0_1
traitlets                                    5.0.5-pyhd3eb1b0_0 --> 5.1.1-
pyhd3eb1b0_0
typed-ast                                    1.4.2-py38h2bbff1b_1 --> 1.4.3-
py38h2bbff1b_1
typing_extensions                           3.7.4.3-pyha847dfd_0 --> 3.10.
0.2-pyh06a4308_0
urllib3                                       1.26.4-pyhd3eb1b0_0 --> 1.26.7
-pyhd3eb1b0_0

```

```

watchdog                                1.0.2-py38haa95532_1 --> 2.1.3-
py38haa95532_0
werkzeug                                1.0.1-pyhd3eb1b0_0 --> 2.0.2-
pyhd3eb1b0_0
wheel                                    0.36.2-pyhd3eb1b0_0 --> 0.37.0
-pyhd3eb1b0_1
wincertstore                            0.2-py38_0 --> 0.2-py
38haa95532_2
xlsxwriter                              1.3.8-pyhd3eb1b0_0 --> 3.0.2-
pyhd3eb1b0_0
xlwings                                  0.23.0-py38haa95532_0 --> 0.24.9
-py38haa95532_0
zipp                                      3.4.1-pyhd3eb1b0_0 --> 3.6.0-
pyhd3eb1b0_0
zope.interface                          5.3.0-py38h2bbff1b_0 --> 5.4.0-
py38h2bbff1b_0
zstd                                     1.4.5-h04227a9_0 --> 1.4.9-
h19a0ad4_0

```

The following packages will be SUPERSEDED by a higher-priority channel:

```

_py-xgboost-mutex                       conda-forge --> pkgs/m
ain
alembic                                 conda-forge::alembic-1.7.5-pyhd8ed1ab~ --> pkgs/m
ain::alembic-1.7.5-pyhd3eb1b0_0
catalogue                               conda-forge::catalogue-2.0.6-py38haa2~ --> pkgs/m
ain::catalogue-2.0.4-py38haa95532_0
catboost                                conda-forge::catboost-1.0.3-py38haa24~ --> pkgs/m
ain::catboost-0.26.1-py38haa95532_0
certifi                                 conda-forge::certifi-2021.10.8-py38ha~ --> pkgs/m
ain::certifi-2021.10.8-py38haa95532_0
colorama                                conda-forge::colorama-0.4.4-pyh9f0ad1~ --> pkgs/m
ain::colorama-0.4.4-pyhd3eb1b0_0
conda                                    conda-forge::conda-4.10.3-py38haa244f~ --> pkgs/m
ain::conda-4.10.3-py38haa95532_0
configparser                            conda-forge::configparser-5.1.0-pyhd8~ --> pkgs/m
ain::configparser-5.0.2-pyhd3eb1b0_0
confuse                                 conda-forge::confuse-1.6.0-pyhd8ed1ab~ --> pkgs/m
ain::confuse-1.5.0-pyhd3eb1b0_0
cymem                                   conda-forge::cymem-2.0.6-py38h885f38d~ --> pkgs/m
ain::cymem-2.0.5-py38hd77b12b_0
cython-blis                             conda-forge::cython-blis-0.7.5-py38h6~ --> pkgs/m
ain::cython-blis-0.7.4-py38h2bbff1b_1
docker-py                               conda-forge::docker-py-5.0.3-py38haa2~ --> pkgs/m
ain::docker-py-4.4.1-py38haa95532_5
docker-pycreds                          conda-forge::docker-pycreds-0.4.0-py_0 --> pkgs/m
ain::docker-pycreds-0.4.0-pyhd3eb1b0_0
gitdb                                    conda-forge::gitdb-4.0.9-pyhd8ed1ab_0 --> pkgs/m
ain::gitdb-4.0.7-pyhd3eb1b0_0
gitpython                               conda-forge::gitpython-3.1.24-pyhd8ed~ --> pkgs/m
ain::gitpython-3.1.18-pyhd3eb1b0_1
htmlmin                                 conda-forge::htmlmin-0.1.12-py_1 --> pkgs/m
ain::htmlmin-0.1.12-pyhd3eb1b0_1
imagehash                               conda-forge::imagehash-4.2.1-pyhd8ed1~ --> pkgs/m
ain::imagehash-4.2.1-pyhd3eb1b0_0

```

```
libprotobuf      conda-forge::libprotobuf-3.18.0-h7755~ --> pkgs/m
ain::libprotobuf-3.17.2-h23ce68f_1
libxgboost       conda-forge::libxgboost-1.5.0-h0e6052~ --> pkgs/m
ain::libxgboost-1.3.3-hd77b12b_0
lightgbm         conda-forge::lightgbm-3.3.1-py38h885f~ --> pkgs/m
ain::lightgbm-3.2.1-py38hd77b12b_0
mako             conda-forge::mako-1.1.6-pyhd8ed1ab_0 --> pkgs/m
ain::mako-1.1.4-pyhd3eb1b0_0
markupsafe       conda-forge::markupsafe-2.0.1-py38h29~ --> pkgs/m
ain::markupsafe-1.1.1-py38he774522_0
missingno       conda-forge::missingno-0.4.2-py_1 --> pkgs/m
ain::missingno-0.4.2-pyhd3eb1b0_1
murmurhash       conda-forge::murmurhash-1.0.6-py38h88~ --> pkgs/m
ain::murmurhash-1.0.5-py38hd77b12b_0
openssl          conda-forge::openssl-1.1.1l-h8ffe710_0 --> pkgs/m
ain::openssl-1.1.1l-h2bbff1b_0
packaging        conda-forge::packaging-21.3-pyhd8ed1a~ --> pkgs/m
ain::packaging-21.0-pyhd3eb1b0_0
pathy            conda-forge::pathy-0.6.1-pyhd8ed1ab_0 --> pkgs/m
ain::pathy-0.6.0-pyhd3eb1b0_0
phik             conda-forge/win-64::phik-0.12.0-py38h~ --> pkgs/m
ain/noarch::phik-0.11.2-pyhd3eb1b0_1
plotly           conda-forge::plotly-5.4.0-pyhd8ed1ab_0 --> pkgs/m
ain::plotly-5.1.0-pyhd3eb1b0_0
preshed         conda-forge::preshed-3.0.6-py38h885f3~ --> pkgs/m
ain::preshed-3.0.5-py38h6c2663c_4
protobuf         conda-forge::protobuf-3.18.0-py38h885~ --> pkgs/m
ain::protobuf-3.17.2-py38hd77b12b_0
py-xgboost       conda-forge::py-xgboost-1.5.0-py38haa~ --> pkgs/m
ain::py-xgboost-1.3.3-py38haa95532_0
pynndescent      conda-forge::pynndescent-0.5.5-pyh6c4~ --> pkgs/m
ain::pynndescent-0.5.4-pyhd3eb1b0_0
retrying         conda-forge::retrying-1.3.3-py_2 --> pkgs/m
ain::retrying-1.3.3-pyhd3eb1b0_2
shellingham      conda-forge::shellingham-1.4.0-pyh44b~ --> pkgs/m
ain::shellingham-1.3.1-pyhd3eb1b0_0
simplejson        conda-forge::simplejson-3.17.6-py38h2~ --> pkgs/m
ain::simplejson-3.17.3-py38h2bbff1b_2
sqlparse         conda-forge::sqlparse-0.4.2-pyhd8ed1a~ --> pkgs/m
ain::sqlparse-0.4.1-py_0
srsly           conda-forge::srsly-2.4.2-py38h885f38d~ --> pkgs/m
ain::srsly-2.4.1-py38hd77b12b_0
tabulate         conda-forge/noarch::tabulate-0.8.9-py~ --> pkgs/m
ain/win-64::tabulate-0.8.9-py38haa95532_0
tangled-up-in-uni~ conda-forge::tangled-up-in-unicode-0.~ --> pkgs/m
ain::tangled-up-in-unicode-0.1.0-pyhd3eb1b0_0
tenacity         conda-forge/noarch::tenacity-8.0.1-py~ --> pkgs/m
ain/win-64::tenacity-8.0.1-py38haa95532_0
typer            conda-forge::typer-0.3.2-pyhd8ed1ab_0 --> pkgs/m
ain::typer-0.3.2-pyhd3eb1b0_0
waitress         conda-forge::waitress-2.0.0-pyhd8ed1a~ --> pkgs/m
ain::waitress-2.0.0-pyhd3eb1b0_0
wasabi           conda-forge::wasabi-0.8.2-pyh44b312d_0 --> pkgs/m
ain::wasabi-0.8.2-pyhd3eb1b0_0
websocket-client conda-forge::websocket-client-1.2.1-p~ --> pkgs/m
ain::websocket-client-0.58.0-py38haa95532_4
```

```
xgboost conda-forge::xgboost-1.5.0-py38haa244~ --> pkgs/main::xgboost-1.3.3-py38haa95532_0
```

The following packages will be DOWNGRADED:

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pyhd3eb1b0_0
contextlib2 0.6.0.post1-py_0 --> 0.6.0.
post1-pyhd3eb1b0_0
diff-match-patch 20200713-py_0 --> 202007
13-pyhd3eb1b0_0
heapdict 1.0.1-py_0 --> 1.0.1-
pyhd3eb1b0_0
html5lib 1.1-py_0 --> 1.1-py
hd3eb1b0_0
intervaltree 3.1.0-py_0 --> 3.1.0-
pyhd3eb1b0_0
jdcal 1.4.1-py_0 --> 1.4.1-
pyhd3eb1b0_0
jsonschema 3.2.0-py_2 --> 3.2.0-
pyhd3eb1b0_2
olefile 0.46-py_0 --> 0.46-p
yhd3eb1b0_0
path.py 12.5.0-0 --> 12.5.0
-hd3eb1b0_0
tblib 1.7.0-py_0 --> 1.7.0-
pyhd3eb1b0_0
wcwidth 0.2.5-py_0 --> 0.2.5-
pyhd3eb1b0_0
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Downloading and Extracting Packages

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comtypes-1.1.10	236 KB		0%
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retrying-1.3.3	14 KB		0%
retrying-1.3.3	14 KB	#####	100%
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cryptography-3.4.8	637 KB	#####	100%
pyyaml-6.0	146 KB		0%
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threadpoolctl-2.2.0	16 KB		0%
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traitlets-5.1.1	84 KB		0%
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charset-normalizer-2	35 KB		0%
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spyder-kernels-2.1.3	113 KB		0%
spyder-kernels-2.1.3	113 KB	#####	100%
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mako-1.1.4	61 KB	#####	100%
binaryornot-0.4.4	351 KB		0%
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python-lsp-jsonrpc-1	10 KB		0%
python-lsp-jsonrpc-1	10 KB	#####	100%
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dal-2021.3.0	24.4 MB		0%
dal-2021.3.0	24.4 MB	##1	21%
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libdeflate-1.8	46 KB		0%
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intel-openmp-2021.4.	2.2 MB		0%
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bokeh-2.4.1	7.6 MB		0%
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bokeh-2.4.1	7.6 MB	#####	100%
bokeh-2.4.1	7.6 MB	#####	100%
isort-5.9.3	83 KB		0%
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notebook-6.4.6	4.5 MB		0%
notebook-6.4.6	4.5 MB	#####3	73%
notebook-6.4.6	4.5 MB	#####	100%
protobuf-3.17.2	257 KB		0%
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pkginfo-1.7.1	60 KB		0%
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wcwidth-0.2.5	26 KB		0%
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werkzeug-2.0.2	224 KB		0%
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spyder-5.1.5	9.4 MB	#####	100%
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Preparing transaction: ...working... done
 Verifying transaction: ...working... done
 Executing transaction: ...working...

```
DEBUG menuinst_win32:create(323): Shortcut cmd is C:\Users\Fritz\anaco
nda3\pythonw.exe, args are ['C:\\Users\\Fritz\\anaconda3\\cwp.py', '
C:\\Users\\Fritz\\anaconda3', 'C:\\Users\\Fritz\\anaconda3\\pythonw.ex
e', 'C:\\Users\\Fritz\\anaconda3\\Scripts\\spyder-script.py']
DEBUG menuinst_win32:create(323): Shortcut cmd is C:\Users\Fritz\anaco
nda3\python.exe, args are ['C:\\Users\\Fritz\\anaconda3\\cwp.py', '

```

```
In [3]: from pytorch_classification import setup, compare_models, predict_model
```

In [4]: `automl = setup(df, target='Churn')`

IntProgress(value=0, description='Processing: ', max=3)

Initiated 23:33:56

Status Preparing Data for Modeling

ValueError Traceback (most recent call last)

~\AppData\Local\Temp\ipykernel_23256\1151740721.py in <module>

----> 1 automl = setup(df, target='Churn')

~\anaconda3\lib\site-packages\pycaret\classification.py in setup(data, target, train_size, test_data, preprocess, imputation_type, iterative_imputation_iters, categorical_features, categorical_imputation, categorical_iterative_imputer, ordinal_features, high_cardinality_features, high_cardinality_method, numeric_features, numeric_imputation, numeric_iterative_imputer, date_features, ignore_features, normalize, normalize_method, transformation, transformation_method, handle_unknown_categorical, unknown_categorical_method, pca, pca_method, pca_components, ignore_low_variance, combine_rare_levels, rare_level_threshold, bin_numeric_features, remove_outliers, outliers_threshold, remove_multicollinearity, multicollinearity_threshold, remove_perfect_collinearity, create_clusters, cluster_iter, polynomial_features, polynomial_degree, trigonometry_features, polynomial_threshold, group_features, group_names, feature_selection, feature_selection_threshold, feature_selection_method, feature_interaction, feature_ratio, interaction_threshold, fix_imbalance, fix_imbalance_method, data_split_shuffle, data_split_stratify, fold_strategy, fold, fold_shuffle, fold_groups, n_jobs, use_gpu, custom_pipeline, html, session_id, log_experiment, experiment_name, log_plots, log_profile, log_data, silent, verbose, profile, profile_kwargs)

578 log_plots = ["auc", "confusion_matrix", "feature"]

579

--> 580 return pycaret.internal.tabular.setup(

581 ml_usecase="classification",

582 available_plots=available_plots,

~\anaconda3\lib\site-packages\pycaret\internal\tabular.py in setup(data, target, ml_usecase, available_plots, train_size, test_data, preprocess, imputation_type, iterative_imputation_iters, categorical_features, categorical_imputation, categorical_iterative_imputer, ordinal_features, high_cardinality_features, high_cardinality_method, numeric_features, numeric_imputation, numeric_iterative_imputer, date_features, ignore_features, normalize, normalize_method, transformation, transformation_method, handle_unknown_categorical, unknown_categorical_method, pca, pca_method, pca_components, ignore_low_variance, combine_rare_levels, rare_level_threshold, bin_numeric_features, remove_outliers, outliers_threshold, remove_multicollinearity, multicollinearity_threshold, remove_perfect_collinearity, create_clusters, cluster_iter, polynomial_features, polynomial_degree, trigonometry_features, polynomial_threshold, group_features, group_names, feature_selection, feature_selection_threshold, feature_selection_method, feature_interaction, feature_ratio


```

io, interaction_threshold, fix_imbalance, fix_imbalance_method, transf
orm_target, transform_target_method, data_split_shuffle, data_split_st
ratify, fold_strategy, fold, fold_shuffle, fold_groups, n_jobs, use_gp
u, custom_pipeline, html, session_id, log_experiment, experiment_name,
log_plots, log_profile, log_data, silent, verbose, profile, profile_kw
args, display)
1215         )
1216     elif fold_strategy == "stratifiedkfold":
-> 1217         fold_generator = StratifiedKFold(
1218             fold_param, random_state=seed, shuffle=fold_shuffle
e_param
1219         )

```

```

~\anaconda3\lib\site-packages\sklearn\model_selection\_split.py in __i
nit__(self, n_splits, shuffle, random_state)
642
643     def __init__(self, n_splits=5, *, shuffle=False, random_st
ate=None):
--> 644         super().__init__(n_splits=n_splits, shuffle=shuffle, r
andom_state=random_state)
645
646     def _make_test_folds(self, X, y=None):

```

```

~\anaconda3\lib\site-packages\sklearn\model_selection\_split.py in __i
nit__(self, n_splits, shuffle, random_state)
294
295     if not shuffle and random_state is not None: # None i
s the default
--> 296         raise ValueError(
297             "Setting a random_state has no effect since sh
uffle is "
298             "False. You should leave "

```

ValueError: Setting a random_state has no effect since shuffle is False. You should leave random_state to its default (None), or set shuffle=True.

In [5]: `conda.update_conda_env()`

```
Collecting package metadata (current_repodata.json): ...working... done
Solving environment: ...working... done

## Package Plan ##

  environment location: C:\Users\Fritz\anaconda3

  added / updated specs:
    - conda
```

The following packages will be UPDATED:

```
ca-certificates      conda-forge::ca-certificates-2021.10.~ --> pkgs/m
```

In []: `conda clean -all`

I've been unable to make the "setup" function work to target any data. I receive the error:

"ValueError: Setting a random_state has no effect since shuffle is False. You should leave random_state to its default (None), or set shuffle=True."

I've tried multiple iterations of the prepped_churn_data.csv - recreating it as a .xls file, using the FTE file and dataset, experimenting with different file names and field names within the data set, as well as different index settings.

I've also tried addressing the error by setting "shuffle" settings to True and False, as well as adjusting "random_state" (as "session_id").

During the install operations for pycaret, I'm usually told that there's a mismatch among packages. So in the "v2" notebook, I also tried installing Anaconda, reinstalling conda, force reinstalling pycaret, updating all with conda, and cleaning conda, in various orders.

I will continue to try and make it work, and may have to try a clean install of my OS or find another computer.

I did install VSCode as well as create GitHub and log in with GitHub desktop, but have had no .py script to upload yet (as pycaret isn't functioning yet).

In []: