

```
import tensorflow as tf
device_name = tf.test.gpu_device_name()
if device_name != '/device:GPU:0':
    raise SystemError('GPU device not found')
print('Found GPU at: {}'.format(device_name))
```

Found GPU at: /device:GPU:0

```
!pip install pycaret[full]
```

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Requirement already satisfied: pycaret[full] in
/usr/local/lib/python3.10/dist-packages (3.3.2)
Requirement already satisfied: ipython>=5.5.0 in
/usr/local/lib/python3.10/dist-packages (from pycaret[full]) (7.34.0)
Requirement already satisfied: ipywidgets>=7.6.5 in
/usr/local/lib/python3.10/dist-packages (from pycaret[full]) (7.7.1)
Requirement already satisfied: tqdm>=4.62.0 in
/usr/local/lib/python3.10/dist-packages (from pycaret[full]) (4.66.5)
Requirement already satisfied: numpy<1.27,>=1.21 in
/usr/local/lib/python3.10/dist-packages (from pycaret[full]) (1.26.4)
Requirement already satisfied: pandas<2.2.0 in
/usr/local/lib/python3.10/dist-packages (from pycaret[full]) (2.1.4)
Requirement already satisfied: jinja2>=3 in
/usr/local/lib/python3.10/dist-packages (from pycaret[full]) (3.1.4)
Collecting scipy<=1.11.4,>=1.6.1 (from pycaret[full])
  Using cached scipy-1.11.4-cp310-cp310-
manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (60 kB)
Requirement already satisfied: joblib<1.4,>=1.2.0 in
/usr/local/lib/python3.10/dist-packages (from pycaret[full]) (1.3.2)
Requirement already satisfied: scikit-learn>1.4.0 in
/usr/local/lib/python3.10/dist-packages (from pycaret[full]) (1.4.2)
Requirement already satisfied: pyod>=1.1.3 in
/usr/local/lib/python3.10/dist-packages (from pycaret[full]) (2.0.2)
Requirement already satisfied: imbalanced-learn>=0.12.0 in
/usr/local/lib/python3.10/dist-packages (from pycaret[full]) (0.12.3)
Requirement already satisfied: category-encoders>=2.4.0 in
/usr/local/lib/python3.10/dist-packages (from pycaret[full]) (2.6.3)
Requirement already satisfied: lightgbm>=3.0.0 in
/usr/local/lib/python3.10/dist-packages (from pycaret[full]) (4.5.0)
Requirement already satisfied: numba>=0.55.0 in
/usr/local/lib/python3.10/dist-packages (from pycaret[full]) (0.60.0)
Requirement already satisfied: requests>=2.27.1 in
/usr/local/lib/python3.10/dist-packages (from pycaret[full]) (2.32.3)
Requirement already satisfied: psutil>=5.9.0 in
/usr/local/lib/python3.10/dist-packages (from pycaret[full]) (5.9.5)
Requirement already satisfied: markupsafe>=2.0.1 in
/usr/local/lib/python3.10/dist-packages (from pycaret[full]) (2.1.5)
Requirement already satisfied: importlib-metadata>=4.12.0 in
/usr/local/lib/python3.10/dist-packages (from pycaret[full]) (8.5.0)
Requirement already satisfied: nbformat>=4.2.0 in
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/usr/local/lib/python3.10/dist-packages (from pycaret[full]) (5.10.4)
Requirement already satisfied: cloudpickle in
/usr/local/lib/python3.10/dist-packages (from pycaret[full]) (2.2.1)
Requirement already satisfied: deprecation>=2.1.0 in
/usr/local/lib/python3.10/dist-packages (from pycaret[full]) (2.1.0)
Requirement already satisfied: xxhash in
/usr/local/lib/python3.10/dist-packages (from pycaret[full]) (3.5.0)
Requirement already satisfied: matplotlib<3.8.0 in
/usr/local/lib/python3.10/dist-packages (from pycaret[full]) (3.7.1)
Requirement already satisfied: scikit-plot>=0.3.7 in
/usr/local/lib/python3.10/dist-packages (from pycaret[full]) (0.3.7)
Requirement already satisfied: yellowbrick>=1.4 in
/usr/local/lib/python3.10/dist-packages (from pycaret[full]) (1.5)
Requirement already satisfied: plotly>=5.14.0 in
/usr/local/lib/python3.10/dist-packages (from pycaret[full]) (5.15.0)
Requirement already satisfied: kaleido>=0.2.1 in
/usr/local/lib/python3.10/dist-packages (from pycaret[full]) (0.2.1)
Requirement already satisfied: schemdraw==0.15 in
/usr/local/lib/python3.10/dist-packages (from pycaret[full]) (0.15)
Requirement already satisfied: plotly-resampler>=0.8.3.1 in
/usr/local/lib/python3.10/dist-packages (from pycaret[full]) (0.10.0)
Requirement already satisfied: statsmodels>=0.12.1 in
/usr/local/lib/python3.10/dist-packages (from pycaret[full]) (0.14.3)
Requirement already satisfied: sktime==0.26.0 in
/usr/local/lib/python3.10/dist-packages (from pycaret[full]) (0.26.0)
Requirement already satisfied: tbats>=1.1.3 in
/usr/local/lib/python3.10/dist-packages (from pycaret[full]) (1.1.3)
Requirement already satisfied: pmdarima>=2.0.4 in
/usr/local/lib/python3.10/dist-packages (from pycaret[full]) (2.0.4)
Requirement already satisfied: wurlitzer in
/usr/local/lib/python3.10/dist-packages (from pycaret[full]) (3.1.1)
Collecting shap~0.44.0 (from pycaret[full])
 Downloading shap-0.44.1-cp310-cp310-manylinux_2_12_x86_64.manylinux2010_x86_64.manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (24 kB)
Collecting interpret>=0.2.7 (from pycaret[full])
 Downloading interpret-0.6.3-py3-none-any.whl.metadata (1.1 kB)
Collecting umap-learn>=0.5.2 (from pycaret[full])
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Requirement already satisfied: pyyaml in
/usr/local/lib/python3.10/dist-packages (from pycaret[full]) (6.0.2)
Collecting ydata-profiling>=4.3.1 (from pycaret[full])
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Collecting explainerdashboard>=0.3.8 (from pycaret[full])
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Collecting fairlearn==0.7.0 (from pycaret[full])
 Downloading fairlearn-0.7.0-py3-none-any.whl.metadata (7.3 kB)

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Collecting kmodes>=0.11.1 (from pycaret[full])
  Downloading kmodes-0.12.2-py2.py3-none-any.whl.metadata (8.1 kB)
Requirement already satisfied: mlxtend>=0.19.0 in
/usr/local/lib/python3.10/dist-packages (from pycaret[full]) (0.23.1)
Collecting statsforecast<1.6.0,>=0.5.5 (from pycaret[full])
  Downloading statsforecast-1.5.0-py3-none-any.whl.metadata (23 kB)
Requirement already satisfied: hyperopt>=0.2.7 in
/usr/local/lib/python3.10/dist-packages (from pycaret[full]) (0.2.7)
Collecting optuna>=3.0.0 (from pycaret[full])
  Downloading optuna-4.0.0-py3-none-any.whl.metadata (16 kB)
Collecting optuna-integration (from pycaret[full])
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kB)
Collecting scikit-optimize>=0.9.0 (from pycaret[full])
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(9.7 kB)
Collecting mlflow>=2.0.0 (from pycaret[full])
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Collecting gradio>=3.50.2 (from pycaret[full])
  Downloading gradio-4.44.0-py3-none-any.whl.metadata (15 kB)
Collecting boto3>=1.24.56 (from pycaret[full])
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Collecting fastapi (from pycaret[full])
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Collecting uvicorn>=0.17.6 (from pycaret[full])
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Collecting m2cgen>=0.9.0 (from pycaret[full])
  Downloading m2cgen-0.10.0-py3-none-any.whl.metadata (9.9 kB)
Collecting evidently~=0.4.16 (from pycaret[full])
  Downloading evidently-0.4.37-py3-none-any.whl.metadata (11 kB)
Requirement already satisfied: dask>=2024.4.1 in
/usr/local/lib/python3.10/dist-packages (from pycaret[full])
(2024.8.0)
Requirement already satisfied: distributed>=2024.4.1 in
/usr/local/lib/python3.10/dist-packages (from pycaret[full])
(2024.8.0)
Collecting fugue~=0.8.0 (from pycaret[full])
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Requirement already satisfied: flask in
/usr/local/lib/python3.10/dist-packages (from pycaret[full]) (2.2.5)
Collecting Werkzeug<3.0,>=2.2 (from pycaret[full])
  Downloading werkzeug-2.3.8-py3-none-any.whl.metadata (4.1 kB)
Requirement already satisfied: pytest<8.0.0 in
/usr/local/lib/python3.10/dist-packages (from pycaret[full]) (7.4.4)
Collecting moto<5.0.0 (from pycaret[full])
  Downloading moto-4.2.14-py2.py3-none-any.whl.metadata (12 kB)
Requirement already satisfied: dash[testing] in
/usr/local/lib/python3.10/dist-packages (from pycaret[full]) (2.18.1)
Collecting scikit-learn-intelx>=2023.0.1 (from pycaret[full])
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Downloading scikit_learn_intelx-2024.7.0-py310-none-  
manylinux1_x86_64.whl.metadata (12 kB)  
Collecting catboost>=0.23.2 (from pycaret[full])  
  Downloading catboost-1.2.7-cp310-cp310-  
manylinux2014_x86_64.whl.metadata (1.2 kB)  
Collecting tune-sklearn>=0.2.1 (from pycaret[full])  
  Downloading tune_sklearn-0.5.0-py3-none-any.whl.metadata (12 kB)  
Collecting ray>=1.0.0 (from ray[tune]>=1.0.0; (python_version !=  
"3.11" and platform_system != "Windows") and extra == "full"-  
>pycaret[full])  
  Downloading ray-2.36.0-cp310-cp310-manylinux2014_x86_64.whl.metadata  
(16 kB)  
Requirement already satisfied: xgboost>=1.1.0 in  
/usr/local/lib/python3.10/dist-packages (from pycaret[full]) (2.1.1)  
Requirement already satisfied: packaging in  
/usr/local/lib/python3.10/dist-packages (from sktime==0.26.0-  
>pycaret[full]) (24.1)  
Requirement already satisfied: scikit-base<0.8.0 in  
/usr/local/lib/python3.10/dist-packages (from sktime==0.26.0-  
>pycaret[full]) (0.7.8)  
Collecting botocore<1.36.0,>=1.35.23 (from boto3>=1.24.56-  
>pycaret[full])  
  Downloading botocore-1.35.23-py3-none-any.whl.metadata (5.7 kB)  
Collecting jmespath<2.0.0,>=0.7.1 (from boto3>=1.24.56->pycaret[full])  
  Downloading jmespath-1.0.1-py3-none-any.whl.metadata (7.6 kB)  
Collecting s3transfer<0.11.0,>=0.10.0 (from boto3>=1.24.56-  
>pycaret[full])  
  Downloading s3transfer-0.10.2-py3-none-any.whl.metadata (1.7 kB)  
Requirement already satisfied: graphviz in  
/usr/local/lib/python3.10/dist-packages (from catboost>=0.23.2-  
>pycaret[full]) (0.20.3)  
Requirement already satisfied: six in /usr/local/lib/python3.10/dist-  
packages (from catboost>=0.23.2->pycaret[full]) (1.16.0)  
Requirement already satisfied: patsy>=0.5.1 in  
/usr/local/lib/python3.10/dist-packages (from category-  
encoders>=2.4.0->pycaret[full]) (0.5.6)  
Requirement already satisfied: click>=8.1 in  
/usr/local/lib/python3.10/dist-packages (from dask>=2024.4.1-  
>pycaret[full]) (8.1.7)  
Requirement already satisfied: fsspec>=2021.09.0 in  
/usr/local/lib/python3.10/dist-packages (from dask>=2024.4.1-  
>pycaret[full]) (2024.6.1)  
Requirement already satisfied: partd>=1.4.0 in  
/usr/local/lib/python3.10/dist-packages (from dask>=2024.4.1-  
>pycaret[full]) (1.4.2)  
Requirement already satisfied: toolz>=0.10.0 in  
/usr/local/lib/python3.10/dist-packages (from dask>=2024.4.1-  
>pycaret[full]) (0.12.1)  
Requirement already satisfied: locket>=1.0.0 in
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/usr/local/lib/python3.10/dist-packages (from distributed>=2024.4.1-
>pycaret[full]) (1.0.0)
Requirement already satisfied: msgpack>=1.0.0 in
/usr/local/lib/python3.10/dist-packages (from distributed>=2024.4.1-
>pycaret[full]) (1.0.8)
Requirement already satisfied: sortedcontainers>=2.0.5 in
/usr/local/lib/python3.10/dist-packages (from distributed>=2024.4.1-
>pycaret[full]) (2.4.0)
Requirement already satisfied: tblib>=1.6.0 in
/usr/local/lib/python3.10/dist-packages (from distributed>=2024.4.1-
>pycaret[full]) (3.0.0)
Requirement already satisfied: tornado>=6.0.4 in
/usr/local/lib/python3.10/dist-packages (from distributed>=2024.4.1-
>pycaret[full]) (6.3.3)
Requirement already satisfied: urllib3>=1.24.3 in
/usr/local/lib/python3.10/dist-packages (from distributed>=2024.4.1-
>pycaret[full]) (2.0.7)
Requirement already satisfied: zict>=3.0.0 in
/usr/local/lib/python3.10/dist-packages (from distributed>=2024.4.1-
>pycaret[full]) (3.0.0)
Requirement already satisfied: nltk>=3.6.7 in
/usr/local/lib/python3.10/dist-packages (from evidently~=0.4.16-
>pycaret[full]) (3.8.1)
Requirement already satisfied: pydantic>=1.10.13 in
/usr/local/lib/python3.10/dist-packages (from evidently~=0.4.16-
>pycaret[full]) (2.9.2)
Collecting litestar>=2.8.3 (from evidently~=0.4.16->pycaret[full])
  Downloading litestar-2.11.0-py3-none-any.whl.metadata (105 kB)
  ─────────────────────────────────── 105.3/105.3 kB 8.6 MB/s eta
0:00:00
  evidently~=0.4.16->pycaret[full])
  Downloading typing_inspect-0.9.0-py3-none-any.whl.metadata (1.5 kB)
Collecting watchdog>=3.0.0 (from evidently~=0.4.16->pycaret[full])
  Downloading watchdog-5.0.2-py3-none-
manylinux2014_x86_64.whl.metadata (41 kB)
  ─────────────────────────────────── 41.6/41.6 kB 3.5 MB/s eta
0:00:00
ent already satisfied: typer>=0.3 in /usr/local/lib/python3.10/dist-
packages (from evidently~=0.4.16->pycaret[full]) (0.12.5)
Requirement already satisfied: rich>=13 in
/usr/local/lib/python3.10/dist-packages (from evidently~=0.4.16-
>pycaret[full]) (13.8.1)
Collecting iterative-telemetry>=0.0.5 (from evidently~=0.4.16-
>pycaret[full])
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kB)
Collecting dynaconf>=3.2.4 (from evidently~=0.4.16->pycaret[full])
  Downloading dynaconf-3.2.6-py2.py3-none-any.whl.metadata (9.1 kB)
Requirement already satisfied: certifi>=2024.7.4 in

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/usr/local/lib/python3.10/dist-packages (from evidently~=0.4.16-
>pycaret[full]) (2024.8.30)
Collecting ujson>=5.4.0 (from evidently~=0.4.16->pycaret[full])
  Downloading ujson-5.10.0-cp310-cp310-
manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (9.3 kB)
Requirement already satisfied: cryptography>=43.0.1 in
/usr/local/lib/python3.10/dist-packages (from evidently~=0.4.16-
>pycaret[full]) (43.0.1)
Collecting dash-auth (from explainerdashboard>=0.3.8->pycaret[full])
  Downloading dash_auth-2.3.0-py3-none-any.whl.metadata (10 kB)
Collecting dash-bootstrap-components>=1 (from
explainerdashboard>=0.3.8->pycaret[full])
  Downloading dash_bootstrap_components-1.6.0-py3-none-
any.whl.metadata (5.2 kB)
Collecting dtreeviz>=2.1 (from explainerdashboard>=0.3.8-
>pycaret[full])
  Downloading dtreeviz-2.2.2-py3-none-any.whl.metadata (2.4 kB)
Collecting flask-simplelogin (from explainerdashboard>=0.3.8-
>pycaret[full])
  Downloading flask_simplelogin-0.1.3-py3-none-any.whl.metadata (3.3
kB)
Collecting Flask-WTF>=1.1 (from explainerdashboard>=0.3.8-
>pycaret[full])
  Downloading flask_wtf-1.2.1-py3-none-any.whl.metadata (3.4 kB)
Collecting jupyter_dash>=0.4.1 (from explainerdashboard>=0.3.8-
>pycaret[full])
  Downloading jupyter_dash-0.4.2-py3-none-any.whl.metadata (3.6 kB)
Collecting oyaml (from explainerdashboard>=0.3.8->pycaret[full])
  Downloading oyaml-1.0-py2.py3-none-any.whl.metadata (1.2 kB)
Collecting waitress (from explainerdashboard>=0.3.8->pycaret[full])
  Downloading waitress-3.0.0-py3-none-any.whl.metadata (4.2 kB)
Collecting triad>=0.9.3 (from fugue~=0.8.0->pycaret[full])
  Downloading triad-0.9.8-py3-none-any.whl.metadata (6.3 kB)
Collecting adagio>=0.2.4 (from fugue~=0.8.0->pycaret[full])
  Downloading adagio-0.2.6-py3-none-any.whl.metadata (1.8 kB)
Collecting qpd>=0.4.4 (from fugue~=0.8.0->pycaret[full])
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Collecting fugue-sql-antlr>=0.1.6 (from fugue~=0.8.0->pycaret[full])
  Downloading fugue-sql-antlr-0.2.2.tar.gz (154 kB)


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154.7/154.7 kB 16.7 MB/s eta
0:00:00
etadata (setup.py) ... ent already satisfied: sqlglot in
/usr/local/lib/python3.10/dist-packages (from fugue~=0.8.0-
>pycaret[full]) (20.11.0)
Collecting aiofiles<24.0,>=22.0 (from gradio>=3.50.2->pycaret[full])
  Downloading aiofiles-23.2.1-py3-none-any.whl.metadata (9.7 kB)
Requirement already satisfied: anyio<5.0,>=3.0 in
/usr/local/lib/python3.10/dist-packages (from gradio>=3.50.2-
>pycaret[full]) (3.7.1)

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Collecting ffmpeg (from gradio>=3.50.2->pycaret[full])
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Collecting gradio-client==1.3.0 (from gradio>=3.50.2->pycaret[full])
  Downloading gradio_client-1.3.0-py3-none-any.whl.metadata (7.1 kB)
Collecting httpx>=0.24.1 (from gradio>=3.50.2->pycaret[full])
  Downloading httpx-0.27.2-py3-none-any.whl.metadata (7.1 kB)
Requirement already satisfied: huggingface-hub>=0.19.3 in
/usr/local/lib/python3.10/dist-packages (from gradio>=3.50.2-
>pycaret[full]) (0.24.7)
Requirement already satisfied: importlib-resources<7.0,>=1.3 in
/usr/local/lib/python3.10/dist-packages (from gradio>=3.50.2-
>pycaret[full]) (6.4.5)
Requirement already satisfied: orjson~=3.0 in
/usr/local/lib/python3.10/dist-packages (from gradio>=3.50.2-
>pycaret[full]) (3.10.7)
Requirement already satisfied: pillow<11.0,>=8.0 in
/usr/local/lib/python3.10/dist-packages (from gradio>=3.50.2-
>pycaret[full]) (10.4.0)
Collecting pydub (from gradio>=3.50.2->pycaret[full])
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Collecting python-multipart>=0.0.9 (from gradio>=3.50.2-
>pycaret[full])
  Downloading python_multipart-0.0.9-py3-none-any.whl.metadata (2.5
kB)
Collecting ruff>=0.2.2 (from gradio>=3.50.2->pycaret[full])
  Downloading ruff-0.6.5-py3-none-
manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (25 kB)
Collecting semantic-version~=2.0 (from gradio>=3.50.2->pycaret[full])
  Downloading semantic_version-2.10.0-py2.py3-none-any.whl.metadata
(9.7 kB)
Collecting tomlkit==0.12.0 (from gradio>=3.50.2->pycaret[full])
  Downloading tomlkit-0.12.0-py3-none-any.whl.metadata (2.7 kB)
Requirement already satisfied: typing-extensions~=4.0 in
/usr/local/lib/python3.10/dist-packages (from gradio>=3.50.2-
>pycaret[full]) (4.12.2)
Collecting websockets<13.0,>=10.0 (from gradio-client==1.3.0-
>gradio>=3.50.2->pycaret[full])
  Downloading websockets-12.0-cp310-cp310-
manylinux_2_5_x86_64.manylinux1_x86_64.manylinux_2_17_x86_64.manylinux
2014_x86_64.whl.metadata (6.6 kB)
Collecting starlette<0.39.0,>=0.37.2 (from fastapi->pycaret[full])
  Downloading starlette-0.38.5-py3-none-any.whl.metadata (6.0 kB)
Requirement already satisfied: networkx>=2.2 in
/usr/local/lib/python3.10/dist-packages (from hyperopt>=0.2.7-
>pycaret[full]) (3.3)
Requirement already satisfied: future in
/usr/local/lib/python3.10/dist-packages (from hyperopt>=0.2.7-
>pycaret[full]) (1.0.0)
Requirement already satisfied: py4j in /usr/local/lib/python3.10/dist-
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packages (from hyperopt>=0.2.7->pycaret[full]) (0.10.9.7)
Requirement already satisfied: threadpoolctl>=2.0.0 in
/usr/local/lib/python3.10/dist-packages (from imbalanced-
learn>=0.12.0->pycaret[full]) (3.5.0)
Requirement already satisfied: zipp>=3.20 in
/usr/local/lib/python3.10/dist-packages (from importlib-
metadata>=4.12.0->pycaret[full]) (3.20.2)
Collecting interpret-core==0.6.3 (from interpret-
core[aplr,dash,debug,linear,notebook,plotly,sensitivity,shap]==0.6.3-
>interpret>=0.2.7->pycaret[full])
  Downloading interpret_core-0.6.3-py3-none-any.whl.metadata (2.8 kB)
Collecting dill>=0.2.5 (from interpret-
core[aplr,dash,debug,linear,notebook,plotly,sensitivity,shap]==0.6.3-
>interpret>=0.2.7->pycaret[full])
  Downloading dill-0.3.8-py3-none-any.whl.metadata (10 kB)
Requirement already satisfied: dash-core-components>=1.0.0 in
/usr/local/lib/python3.10/dist-packages (from interpret-
core[aplr,dash,debug,linear,notebook,plotly,sensitivity,shap]==0.6.3-
>interpret>=0.2.7->pycaret[full]) (2.0.0)
Requirement already satisfied: dash-html-components>=1.0.0 in
/usr/local/lib/python3.10/dist-packages (from interpret-
core[aplr,dash,debug,linear,notebook,plotly,sensitivity,shap]==0.6.3-
>interpret>=0.2.7->pycaret[full]) (2.0.0)
Requirement already satisfied: dash-table>=4.1.0 in
/usr/local/lib/python3.10/dist-packages (from interpret-
core[aplr,dash,debug,linear,notebook,plotly,sensitivity,shap]==0.6.3-
>interpret>=0.2.7->pycaret[full]) (5.0.0)
Collecting dash-cytoscape>=0.1.1 (from interpret-
core[aplr,dash,debug,linear,notebook,plotly,sensitivity,shap]==0.6.3-
>interpret>=0.2.7->pycaret[full])
  Downloading dash_cytoscape-1.0.2.tar.gz (4.0 MB)
  4.0/4.0 MB 96.3 MB/s eta
0:00:00
etadata (setup.py) ... interpret-
core[aplr,dash,debug,linear,notebook,plotly,sensitivity,shap]==0.6.3-
>interpret>=0.2.7->pycaret[full])
  Downloading gevent-24.2.1-cp310-cp310-
manylinux_2_28_x86_64.whl.metadata (13 kB)
Collecting aplr>=10.5.1 (from interpret-
core[aplr,dash,debug,linear,notebook,plotly,sensitivity,shap]==0.6.3-
>interpret>=0.2.7->pycaret[full])
  Downloading aplr-10.6.3-cp310-cp310-
manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (2.0 kB)
Requirement already satisfied: ipykernel>=4.10.0 in
/usr/local/lib/python3.10/dist-packages (from interpret-
core[aplr,dash,debug,linear,notebook,plotly,sensitivity,shap]==0.6.3-
>interpret>=0.2.7->pycaret[full]) (5.5.6)
Collecting SALib>=1.3.3 (from interpret-
core[aplr,dash,debug,linear,notebook,plotly,sensitivity,shap]==0.6.3-

```



```
>interpret>=0.2.7->pycaret[full])
  Downloading salib-1.5.1-py3-none-any.whl.metadata (11 kB)
Requirement already satisfied: setuptools>=18.5 in
/usr/local/lib/python3.10/dist-packages (from ipython>=5.5.0-
>pycaret[full]) (71.0.4)
Requirement already satisfied: jedi>=0.16 in
/usr/local/lib/python3.10/dist-packages (from ipython>=5.5.0-
>pycaret[full]) (0.19.1)
Requirement already satisfied: decorator in
/usr/local/lib/python3.10/dist-packages (from ipython>=5.5.0-
>pycaret[full]) (4.4.2)
Requirement already satisfied: pickleshare in
/usr/local/lib/python3.10/dist-packages (from ipython>=5.5.0-
>pycaret[full]) (0.7.5)
Requirement already satisfied: traitlets>=4.2 in
/usr/local/lib/python3.10/dist-packages (from ipython>=5.5.0-
>pycaret[full]) (5.7.1)
Requirement already satisfied: prompt-toolkit!=3.0.0,!
=3.0.1,<3.1.0,>=2.0.0 in /usr/local/lib/python3.10/dist-packages (from
ipython>=5.5.0->pycaret[full]) (3.0.47)
Requirement already satisfied: pygments in
/usr/local/lib/python3.10/dist-packages (from ipython>=5.5.0-
>pycaret[full]) (2.18.0)
Requirement already satisfied: backcall in
/usr/local/lib/python3.10/dist-packages (from ipython>=5.5.0-
>pycaret[full]) (0.2.0)
Requirement already satisfied: matplotlib-inline in
/usr/local/lib/python3.10/dist-packages (from ipython>=5.5.0-
>pycaret[full]) (0.1.7)
Requirement already satisfied: pexpect>4.3 in
/usr/local/lib/python3.10/dist-packages (from ipython>=5.5.0-
>pycaret[full]) (4.9.0)
Requirement already satisfied: ipython-genutils~=0.2.0 in
/usr/local/lib/python3.10/dist-packages (from ipywidgets>=7.6.5-
>pycaret[full]) (0.2.0)
Requirement already satisfied: widgetsnbextension~=3.6.0 in
/usr/local/lib/python3.10/dist-packages (from ipywidgets>=7.6.5-
>pycaret[full]) (3.6.9)
Requirement already satisfied: jupyterlab-widgets>=1.0.0 in
/usr/local/lib/python3.10/dist-packages (from ipywidgets>=7.6.5-
>pycaret[full]) (3.0.13)
Requirement already satisfied: contourpy>=1.0.1 in
/usr/local/lib/python3.10/dist-packages (from matplotlib<3.8.0-
>pycaret[full]) (1.3.0)
Requirement already satisfied: cycler>=0.10 in
/usr/local/lib/python3.10/dist-packages (from matplotlib<3.8.0-
>pycaret[full]) (0.12.1)
Requirement already satisfied: fonttools>=4.22.0 in
/usr/local/lib/python3.10/dist-packages (from matplotlib<3.8.0-
```

```
>pycaret[full]) (4.53.1)
Requirement already satisfied: kiwisolver>=1.0.1 in
/usr/local/lib/python3.10/dist-packages (from matplotlib<3.8.0-
>pycaret[full]) (1.4.7)
Requirement already satisfied: pyparsing>=2.3.1 in
/usr/local/lib/python3.10/dist-packages (from matplotlib<3.8.0-
>pycaret[full]) (3.1.4)
Requirement already satisfied: python-dateutil>=2.7 in
/usr/local/lib/python3.10/dist-packages (from matplotlib<3.8.0-
>pycaret[full]) (2.8.2)
Collecting mlflow-skinny==2.16.2 (from mlflow>=2.0.0->pycaret[full])
  Downloading mlflow_skinny-2.16.2-py3-none-any.whl.metadata (30 kB)
Collecting alembic!=1.10.0,<2 (from mlflow>=2.0.0->pycaret[full])
  Downloading alembic-1.13.2-py3-none-any.whl.metadata (7.4 kB)
Collecting docker<8,>=4.0.0 (from mlflow>=2.0.0->pycaret[full])
  Downloading docker-7.1.0-py3-none-any.whl.metadata (3.8 kB)
Collecting graphene<4 (from mlflow>=2.0.0->pycaret[full])
  Downloading graphene-3.3-py2.py3-none-any.whl.metadata (7.7 kB)
Requirement already satisfied: markdown<4,>=3.3 in
/usr/local/lib/python3.10/dist-packages (from mlflow>=2.0.0-
>pycaret[full]) (3.7)
Requirement already satisfied: pyarrow<18,>=4.0.0 in
/usr/local/lib/python3.10/dist-packages (from mlflow>=2.0.0-
>pycaret[full]) (14.0.2)
Requirement already satisfied: sqlalchemy<3,>=1.4.0 in
/usr/local/lib/python3.10/dist-packages (from mlflow>=2.0.0-
>pycaret[full]) (2.0.35)
Collecting gunicorn<24 (from mlflow>=2.0.0->pycaret[full])
  Downloading gunicorn-23.0.0-py3-none-any.whl.metadata (4.4 kB)
Requirement already satisfied: cachetools<6,>=5.0.0 in
/usr/local/lib/python3.10/dist-packages (from mlflow-skinny==2.16.2-
>mlflow>=2.0.0->pycaret[full]) (5.5.0)
Collecting databricks-sdk<1,>=0.20.0 (from mlflow-skinny==2.16.2-
>mlflow>=2.0.0->pycaret[full])
  Downloading databricks_sdk-0.32.3-py3-none-any.whl.metadata (37 kB)
Collecting gitpython<4,>=3.1.9 (from mlflow-skinny==2.16.2-
>mlflow>=2.0.0->pycaret[full])
  Downloading GitPython-3.1.43-py3-none-any.whl.metadata (13 kB)
Collecting opentelemetry-api<3,>=1.9.0 (from mlflow-skinny==2.16.2-
>mlflow>=2.0.0->pycaret[full])
  Downloading opentelemetry_api-1.27.0-py3-none-any.whl.metadata (1.4
kB)
Collecting opentelemetry-sdk<3,>=1.9.0 (from mlflow-skinny==2.16.2-
>mlflow>=2.0.0->pycaret[full])
  Downloading opentelemetry_sdk-1.27.0-py3-none-any.whl.metadata (1.5
kB)
Requirement already satisfied: protobuf<6,>=3.12.0 in
/usr/local/lib/python3.10/dist-packages (from mlflow-skinny==2.16.2-
>mlflow>=2.0.0->pycaret[full]) (3.20.3)
```

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Requirement already satisfied: sqlparse<1,>=0.4.0 in
/usr/local/lib/python3.10/dist-packages (from mlflow-skinny==2.16.2-
>mlflow>=2.0.0->pycaret[full]) (0.5.1)
Requirement already satisfied: itsdangerous>=2.0 in
/usr/local/lib/python3.10/dist-packages (from flask->pycaret[full])
(2.2.0)
Collecting xmltodict (from moto<5.0.0->pycaret[full])
  Downloading xmltodict-0.13.0-py2.py3-none-any.whl.metadata (7.7 kB)
Collecting responses>=0.13.0 (from moto<5.0.0->pycaret[full])
  Downloading responses-0.25.3-py3-none-any.whl.metadata (46 kB)


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46.7/46.7 kB 4.6 MB/s eta
0:00:00
Requirement already satisfied: fastjsonschema>=2.15 in
/usr/local/lib/python3.10/dist-packages (from nbformat>=4.2.0-
>pycaret[full]) (2.20.0)
Requirement already satisfied: jsonschema>=2.6 in
/usr/local/lib/python3.10/dist-packages (from nbformat>=4.2.0-
>pycaret[full]) (4.23.0)
Requirement already satisfied: jupyter-core!=5.0.*,>=4.12 in
/usr/local/lib/python3.10/dist-packages (from nbformat>=4.2.0-
>pycaret[full]) (5.7.2)
Requirement already satisfied: llvmlite<0.44,>=0.43.0dev0 in
/usr/local/lib/python3.10/dist-packages (from numba>=0.55.0-
>pycaret[full]) (0.43.0)
Collecting colorlog (from optuna>=3.0.0->pycaret[full])
  Downloading colorlog-6.8.2-py3-none-any.whl.metadata (10 kB)
Requirement already satisfied: pytz>=2020.1 in
/usr/local/lib/python3.10/dist-packages (from pandas<2.2.0-
>pycaret[full]) (2024.2)
Requirement already satisfied: tzdata>=2022.1 in
/usr/local/lib/python3.10/dist-packages (from pandas<2.2.0-
>pycaret[full]) (2024.1)
Requirement already satisfied: tenacity>=6.2.0 in
/usr/local/lib/python3.10/dist-packages (from plotly>=5.14.0-
>pycaret[full]) (9.0.0)
Requirement already satisfied: tsdownsample>=0.1.3 in
/usr/local/lib/python3.10/dist-packages (from plotly-
resampler>=0.8.3.1->pycaret[full]) (0.1.3)
Requirement already satisfied: Cython!=0.29.18,!0.29.31,>=0.29 in
/usr/local/lib/python3.10/dist-packages (from pmdarima>=2.0.4-
>pycaret[full]) (3.0.11)
Requirement already satisfied: iniconfig in
/usr/local/lib/python3.10/dist-packages (from pytest<8.0.0-
>pycaret[full]) (2.0.0)
Requirement already satisfied: pluggy<2.0,>=0.12 in
/usr/local/lib/python3.10/dist-packages (from pytest<8.0.0-
>pycaret[full]) (1.5.0)
Requirement already satisfied: exceptiongroup>=1.0.0rc8 in
/usr/local/lib/python3.10/dist-packages (from pytest<8.0.0-
>pycaret[full]) (1.2.2)
```

Requirement already satisfied: tomli>=1.0.0 in
/usr/local/lib/python3.10/dist-packages (from pytest<8.0.0-
>pycaret[full]) (2.0.1)

Requirement already satisfied: filelock in
/usr/local/lib/python3.10/dist-packages (from ray>=1.0.0-
>ray[tune]>=1.0.0; (python_version != "3.11" and platform_system !=
"Windows") and extra == "full"->pycaret[full]) (3.16.0)

Requirement already satisfied: aiosignal in
/usr/local/lib/python3.10/dist-packages (from ray>=1.0.0-
>ray[tune]>=1.0.0; (python_version != "3.11" and platform_system !=
"Windows") and extra == "full"->pycaret[full]) (1.3.1)

Requirement already satisfied: frozenlist in
/usr/local/lib/python3.10/dist-packages (from ray>=1.0.0-
>ray[tune]>=1.0.0; (python_version != "3.11" and platform_system !=
"Windows") and extra == "full"->pycaret[full]) (1.4.1)

Collecting tensorboardX>=1.9 (from ray[tune]>=1.0.0; (python_version !=
"3.11" and platform_system != "Windows") and extra == "full"-
>pycaret[full])
Downloading tensorboardX-2.6.2.2-py2.py3-none-any.whl.metadata (5.8
kB)

Requirement already satisfied: charset-normalizer<4,>=2 in
/usr/local/lib/python3.10/dist-packages (from requests>=2.27.1-
>pycaret[full]) (3.3.2)

Requirement already satisfied: idna<4,>=2.5 in
/usr/local/lib/python3.10/dist-packages (from requests>=2.27.1-
>pycaret[full]) (3.10)

Collecting daal4py==2024.7.0 (from scikit-learn-intelex>=2023.0.1-
>pycaret[full])
Downloading daal4py-2024.7.0-py310-none-
manylinux1_x86_64.whl.metadata (7.4 kB)

Collecting daal==2024.7.0 (from daal4py==2024.7.0->scikit-learn-
intelex>=2023.0.1->pycaret[full])
Downloading daal-2024.7.0-py2.py3-none-
manylinux1_x86_64.whl.metadata (1.1 kB)

Requirement already satisfied: tbb==2021.* in
/usr/local/lib/python3.10/dist-packages (from daal==2024.7.0-
>daal4py==2024.7.0->scikit-learn-intelex>=2023.0.1->pycaret[full])
(2021.13.1)

Collecting pyaml>=16.9 (from scikit-optimize>=0.9.0->pycaret[full])
Downloading pyaml-24.7.0-py3-none-any.whl.metadata (11 kB)

Collecting slicer==0.0.7 (from shap~0.44.0->pycaret[full])
Downloading slicer-0.0.7-py3-none-any.whl.metadata (3.7 kB)

Collecting pynndescent>=0.5 (from umap-learn>=0.5.2->pycaret[full])
Downloading pynndescent-0.5.13-py3-none-any.whl.metadata (6.8 kB)

Collecting h11>=0.8 (from uvicorn>=0.17.6->pycaret[full])
Downloading h11-0.14.0-py3-none-any.whl.metadata (8.2 kB)

Requirement already satisfied: nvidia-nccl-cu12 in
/usr/local/lib/python3.10/dist-packages (from xgboost>=1.1.0-
>pycaret[full]) (2.23.4)

```
Collecting visions<0.7.7,>=0.7.5 (from
visions[type_image_path]<0.7.7,>=0.7.5->ydata-profiling>=4.3.1-
>pycaret[full])
  Downloading visions-0.7.6-py3-none-any.whl.metadata (11 kB)
Collecting htmlmin==0.1.12 (from ydata-profiling>=4.3.1-
>pycaret[full])
  Downloading htmlmin-0.1.12.tar.gz (19 kB)
  Preparing metadata (setup.py) ... ydata-profiling>=4.3.1-
>pycaret[full])
  Downloading phik-0.12.4-cp310-cp310-
manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (5.6 kB)
Requirement already satisfied: seaborn<0.14,>=0.10.1 in
/usr/local/lib/python3.10/dist-packages (from ydata-profiling>=4.3.1-
>pycaret[full]) (0.13.1)
Collecting multimethod<2,>=1.4 (from ydata-profiling>=4.3.1-
>pycaret[full])
  Downloading multimethod-1.12-py3-none-any.whl.metadata (9.6 kB)
Requirement already satisfied: typeguard<5,>=3 in
/usr/local/lib/python3.10/dist-packages (from ydata-profiling>=4.3.1-
>pycaret[full]) (4.3.0)
Collecting imagehash==4.3.1 (from ydata-profiling>=4.3.1-
>pycaret[full])
  Downloading ImageHash-4.3.1-py2.py3-none-any.whl.metadata (8.0 kB)
Requirement already satisfied: wordcloud>=1.9.3 in
/usr/local/lib/python3.10/dist-packages (from ydata-profiling>=4.3.1-
>pycaret[full]) (1.9.3)
Collecting dacite>=1.8 (from ydata-profiling>=4.3.1->pycaret[full])
  Downloading dacite-1.8.1-py3-none-any.whl.metadata (15 kB)
Collecting PyWavelets (from imagehash==4.3.1->ydata-profiling>=4.3.1-
>pycaret[full])
  Downloading pywavelets-1.7.0-cp310-cp310-
manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (9.0 kB)
Requirement already satisfied: retrying in
/usr/local/lib/python3.10/dist-packages (from dash[testing]; extra ==
"full"->pycaret[full]) (1.3.4)
Requirement already satisfied: nest-asyncio in
/usr/local/lib/python3.10/dist-packages (from dash[testing]; extra ==
"full"->pycaret[full]) (1.6.0)
Requirement already satisfied: beautifulsoup4>=4.8.2 in
/usr/local/lib/python3.10/dist-packages (from dash[testing]; extra ==
"full"->pycaret[full]) (4.12.3)
Requirement already satisfied: lxml>=4.6.2 in
/usr/local/lib/python3.10/dist-packages (from dash[testing]; extra ==
"full"->pycaret[full]) (4.9.4)
Collecting percy>=2.0.2 (from dash[testing]; extra == "full"-
>pycaret[full])
  Downloading percy-2.0.2-py2.py3-none-any.whl.metadata (821 bytes)
Collecting selenium<=4.2.0,>=3.141.0 (from dash[testing]; extra ==
"full"->pycaret[full])
```

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Downloading selenium-4.2.0-py3-none-any.whl.metadata (6.5 kB)
Collecting multiprocess>=0.70.12 (from dash[testing]; extra == "full"->pycaret[full])
  Downloading multiprocess-0.70.16-py310-none-any.whl.metadata (7.2 kB)
Collecting dash-testing-stub>=0.0.2 (from dash[testing]; extra == "full"->pycaret[full])
  Downloading dash_testing_stub-0.0.2-py3-none-any.whl.metadata (587 bytes)
Collecting Mako (from alembic!=1.10.0,<2->mlflow>=2.0.0->pycaret[full])
  Downloading Mako-1.3.5-py3-none-any.whl.metadata (2.9 kB)
Requirement already satisfied: sniffio>=1.1 in /usr/local/lib/python3.10/dist-packages (from anyio<5.0,>=3.0->gradio>=3.50.2->pycaret[full]) (1.3.1)
Requirement already satisfied: soupsieve>1.2 in /usr/local/lib/python3.10/dist-packages (from beautifulsoup4>=4.8.2->dash[testing]; extra == "full"->pycaret[full]) (2.6)
Requirement already satisfied: cffi>=1.12 in /usr/local/lib/python3.10/dist-packages (from cryptography>=43.0.1->evidently~=0.4.16->pycaret[full]) (1.17.1)
Collecting dask-expr<1.2,>=1.1 (from dask[dataframe,distributed]>=2023.5.0; extra == "dask"->fugue[dask]; extra == "full"->pycaret[full])
  Downloading dask_expr-1.1.14-py3-none-any.whl.metadata (2.5 kB)
Requirement already satisfied: colour in /usr/local/lib/python3.10/dist-packages (from dtreeviz>=2.1->explainerdashboard>=0.3.8->pycaret[full]) (0.1.5)
Collecting wtforms (from Flask-WTF>=1.1->explainerdashboard>=0.3.8->pycaret[full])
  Downloading wtforms-3.1.2-py3-none-any.whl.metadata (5.3 kB)
Collecting antlr4-python3-runtime<4.12 (from fugue-sql-antlr>=0.1.6->fugue~=0.8.0->pycaret[full])
  Downloading antlr4_python3_runtime-4.11.1-py3-none-any.whl.metadata (291 bytes)
Collecting graphql-core<3.3,>=3.1 (from graphene<4->mlflow>=2.0.0->pycaret[full])
  Downloading graphql_core-3.2.4-py3-none-any.whl.metadata (10 kB)
Collecting graphql-relay<3.3,>=3.1 (from graphene<4->mlflow>=2.0.0->pycaret[full])
  Downloading graphql_relay-3.2.0-py3-none-any.whl.metadata (12 kB)
Collecting aniso8601<10,>=8 (from graphene<4->mlflow>=2.0.0->pycaret[full])
  Downloading aniso8601-9.0.1-py2.py3-none-any.whl.metadata (23 kB)
Collecting httpcore==1.* (from httpx>=0.24.1->gradio>=3.50.2->pycaret[full])
  Downloading httpcore-1.0.5-py3-none-any.whl.metadata (20 kB)
Requirement already satisfied: jupyter-client in /usr/local/lib/python3.10/dist-packages (from ipykernel>=4.10.0-
```

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>interpret-
core[aplr,dash,debug,linear,notebook,plotly,sensitivity,shap]==0.6.3-
>interpret>=0.2.7->pycaret[full]) (6.1.12)
Collecting appdirs (from iterative-telemetry>=0.0.5-
>evidently~=0.4.16->pycaret[full])
  Downloading appdirs-1.4.4-py2.py3-none-any.whl.metadata (9.0 kB)
Requirement already satisfied: distro in /usr/lib/python3/dist-
packages (from iterative-telemetry>=0.0.5->evidently~=0.4.16-
>pycaret[full]) (1.7.0)
Requirement already satisfied: parso<0.9.0,>=0.8.3 in
/usr/local/lib/python3.10/dist-packages (from jedi>=0.16-
>ipython>=5.5.0->pycaret[full]) (0.8.4)
Requirement already satisfied: attrs>=22.2.0 in
/usr/local/lib/python3.10/dist-packages (from jsonschema>=2.6-
>nbformat>=4.2.0->pycaret[full]) (24.2.0)
Requirement already satisfied: jsonschema-specifications>=2023.03.6 in
/usr/local/lib/python3.10/dist-packages (from jsonschema>=2.6-
>nbformat>=4.2.0->pycaret[full]) (2023.12.1)
Requirement already satisfied: referencing>=0.28.4 in
/usr/local/lib/python3.10/dist-packages (from jsonschema>=2.6-
>nbformat>=4.2.0->pycaret[full]) (0.35.1)
Requirement already satisfied: rpds-py>=0.7.1 in
/usr/local/lib/python3.10/dist-packages (from jsonschema>=2.6-
>nbformat>=4.2.0->pycaret[full]) (0.20.0)
Requirement already satisfied: platformdirs>=2.5 in
/usr/local/lib/python3.10/dist-packages (from jupyter-core!
=5.0.*,>=4.12->nbformat>=4.2.0->pycaret[full]) (4.3.4)
Collecting ansi2html (from jupyter-dash>=0.4.1-
>explainerdashboard>=0.3.8->pycaret[full])
  Downloading ansi2html-1.9.2-py3-none-any.whl.metadata (3.7 kB)
Collecting msgspec>=0.18.2 (from litestar>=2.8.3->evidently~=0.4.16-
>pycaret[full])
  Downloading msgspec-0.18.6-cp310-cp310-
manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (6.9 kB)
Requirement already satisfied: multidict>=6.0.2 in
/usr/local/lib/python3.10/dist-packages (from litestar>=2.8.3-
>evidently~=0.4.16->pycaret[full]) (6.1.0)
Collecting polyfactory>=2.6.3 (from litestar>=2.8.3-
>evidently~=0.4.16->pycaret[full])
  Downloading polyfactory-2.16.2-py3-none-any.whl.metadata (27 kB)
Collecting rich-click (from litestar>=2.8.3->evidently~=0.4.16-
>pycaret[full])
  Downloading rich_click-1.8.3-py3-none-any.whl.metadata (7.9 kB)
Requirement already satisfied: regex>=2021.8.3 in
/usr/local/lib/python3.10/dist-packages (from nltk>=3.6.7-
>evidently~=0.4.16->pycaret[full]) (2024.9.11)
Requirement already satisfied: ptyprocess>=0.5 in
/usr/local/lib/python3.10/dist-packages (from pexpect>4.3-
>ipython>=5.5.0->pycaret[full]) (0.7.0)

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Requirement already satisfied: wcwidth in
/usr/local/lib/python3.10/dist-packages (from prompt-toolkit!=3.0.0,!
=3.0.1,<3.1.0,>=2.0.0->ipython>=5.5.0->pycaret[full]) (0.2.13)
Requirement already satisfied: annotated-types>=0.6.0 in
/usr/local/lib/python3.10/dist-packages (from pydantic>=1.10.13-
>evidently~=0.4.16->pycaret[full]) (0.7.0)
Requirement already satisfied: pydantic-core==2.23.4 in
/usr/local/lib/python3.10/dist-packages (from pydantic>=1.10.13-
>evidently~=0.4.16->pycaret[full]) (2.23.4)
Requirement already satisfied: markdown-it-py>=2.2.0 in
/usr/local/lib/python3.10/dist-packages (from rich>=13-
>evidently~=0.4.16->pycaret[full]) (3.0.0)
INFO: pip is looking at multiple versions of selenium to determine
which version is compatible with other requirements. This could take a
while.
Collecting selenium<=4.2.0,>=3.141.0 (from dash[testing]; extra ==
"full"->pycaret[full])
  Downloading selenium-4.1.5-py3-none-any.whl.metadata (6.5 kB)
  Downloading selenium-4.1.4-py3-none-any.whl.metadata (6.5 kB)
  Downloading selenium-4.1.3-py3-none-any.whl.metadata (6.5 kB)
  Downloading selenium-4.1.2-py3-none-any.whl.metadata (6.5 kB)
  Downloading selenium-4.1.1-py3-none-any.whl.metadata (6.5 kB)
  Downloading selenium-4.1.0-py3-none-any.whl.metadata (6.5 kB)
  Downloading selenium-4.0.0-py3-none-any.whl.metadata (6.5 kB)
INFO: pip is still looking at multiple versions of selenium to
determine which version is compatible with other requirements. This
could take a while.
  Downloading selenium-3.141.0-py2.py3-none-any.whl.metadata (6.6 kB)
Requirement already satisfied: greenlet!=0.4.17 in
/usr/local/lib/python3.10/dist-packages (from sqlalchemy<3,>=1.4.0-
>mlflow>=2.0.0->pycaret[full]) (3.1.0)
Collecting fs (from triad>=0.9.3->fugue~=0.8.0->pycaret[full])
  Downloading fs-2.4.16-py2.py3-none-any.whl.metadata (6.3 kB)
Requirement already satisfied: shellingham>=1.3.0 in
/usr/local/lib/python3.10/dist-packages (from typer>=0.3-
>evidently~=0.4.16->pycaret[full]) (1.5.4)
Collecting mypy_extensions>=0.3.0 (from typing-inspect>=0.9.0-
>evidently~=0.4.16->pycaret[full])
  Downloading mypy_extensions-1.0.0-py3-none-any.whl.metadata (1.1 kB)
Collecting httptools>=0.5.0 (from uvicorn[standard]>=0.22.0-
>evidently~=0.4.16->pycaret[full])
  Downloading httptools-0.6.1-cp310-cp310-
manylinux_2_5_x86_64.manylinux1_x86_64.manylinux_2_17_x86_64.manylinux
2014_x86_64.whl.metadata (3.6 kB)
Collecting python-dotenv>=0.13 (from uvicorn[standard]>=0.22.0-
>evidently~=0.4.16->pycaret[full])
  Downloading python_dotenv-1.0.1-py3-none-any.whl.metadata (23 kB)
Collecting uvloop!=0.15.0,!0.15.1,>=0.14.0 (from
uvicorn[standard]>=0.22.0->evidently~=0.4.16->pycaret[full])

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    Downloading uvloop-0.20.0-cp310-cp310-
manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (4.9 kB)
Collecting watchfiles>=0.13 (from uvicorn[standard]>=0.22.0-
>evidently~=0.4.16->pycaret[full])
    Downloading watchfiles-0.24.0-cp310-cp310-
manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (4.9 kB)
Requirement already satisfied: notebook>=4.4.1 in
/usr/local/lib/python3.10/dist-packages (from
widgetsnbextension~=3.6.0->ipywidgets>=7.6.5->pycaret[full]) (6.5.5)
Requirement already satisfied: pyparser in
/usr/local/lib/python3.10/dist-packages (from cffi>=1.12-
>cryptography>=43.0.1->evidently~=0.4.16->pycaret[full]) (2.22)
INFO: pip is looking at multiple versions of dask-expr to determine
which version is compatible with other requirements. This could take a
while.
Collecting dask-expr<1.2,>=1.1 (from
dask[dataframe,distributed]>=2023.5.0; extra == "dask"->fugue[dask];
extra == "full"->pycaret[full])
    Downloading dask_expr-1.1.13-py3-none-any.whl.metadata (2.5 kB)
    Downloading dask_expr-1.1.12-py3-none-any.whl.metadata (2.5 kB)
    Downloading dask_expr-1.1.11-py3-none-any.whl.metadata (2.5 kB)
    Downloading dask_expr-1.1.10-py3-none-any.whl.metadata (2.5 kB)
Requirement already satisfied: google-auth~=2.0 in
/usr/local/lib/python3.10/dist-packages (from databricks-
sdk<1,>=0.20.0->mlflow-skinny==2.16.2->mlflow>=2.0.0->pycaret[full])
(2.27.0)
Collecting zope.event (from gevent>=1.3.6->interpret-
core[aplr,dash,debug,linear,notebook,plotly,sensitivity,shap]==0.6.3-
>interpret>=0.2.7->pycaret[full])
    Downloading zope.event-5.0-py3-none-any.whl.metadata (4.4 kB)
Collecting zope.interface (from gevent>=1.3.6->interpret-
core[aplr,dash,debug,linear,notebook,plotly,sensitivity,shap]==0.6.3-
>interpret>=0.2.7->pycaret[full])
    Downloading zope.interface-7.0.3-cp310-cp310-
manylinux_2_5_x86_64.manylinux1_x86_64.manylinux_2_17_x86_64.manylinux
2014_x86_64.whl.metadata (43 kB)
----- 43.6/43.6 kB 4.1 MB/s eta
0:00:00
    gitpython<4,>=3.1.9->mlflow-skinny==2.16.2->mlflow>=2.0.0-
>pycaret[full])
    Downloading gitdb-4.0.11-py3-none-any.whl.metadata (1.2 kB)
Requirement already satisfied: mdurl~=0.1 in
/usr/local/lib/python3.10/dist-packages (from markdown-it-py>=2.2.0-
>rich>=13->evidently~=0.4.16->pycaret[full]) (0.1.2)
Requirement already satisfied: pyzmq<25,>=17 in
/usr/local/lib/python3.10/dist-packages (from notebook>=4.4.1-
>widgetsnbextension~=3.6.0->ipywidgets>=7.6.5->pycaret[full]) (24.0.1)
Requirement already satisfied: argon2-cffi in
/usr/local/lib/python3.10/dist-packages (from notebook>=4.4.1-

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>widgetsnbextension~=3.6.0->ipywidgets>=7.6.5->pycaret[full]) (23.1.0)
Requirement already satisfied: nbconvert>=5 in
/usr/local/lib/python3.10/dist-packages (from notebook>=4.4.1-
>widgetsnbextension~=3.6.0->ipywidgets>=7.6.5->pycaret[full]) (6.5.4)
Requirement already satisfied: Send2Trash>=1.8.0 in
/usr/local/lib/python3.10/dist-packages (from notebook>=4.4.1-
>widgetsnbextension~=3.6.0->ipywidgets>=7.6.5->pycaret[full]) (1.8.3)
Requirement already satisfied: terminado>=0.8.3 in
/usr/local/lib/python3.10/dist-packages (from notebook>=4.4.1-
>widgetsnbextension~=3.6.0->ipywidgets>=7.6.5->pycaret[full]) (0.18.1)
Requirement already satisfied: prometheus-client in
/usr/local/lib/python3.10/dist-packages (from notebook>=4.4.1-
>widgetsnbextension~=3.6.0->ipywidgets>=7.6.5->pycaret[full]) (0.20.0)
Requirement already satisfied: nbclassic>=0.4.7 in
/usr/local/lib/python3.10/dist-packages (from notebook>=4.4.1-
>widgetsnbextension~=3.6.0->ipywidgets>=7.6.5->pycaret[full]) (1.1.0)
Collecting deprecated>=1.2.6 (from opentelemetry-api<3,>=1.9.0-
>mlflow-skinny==2.16.2->mlflow>=2.0.0->pycaret[full])
  Downloading Deprecated-1.2.14-py2.py3-none-any.whl.metadata (5.4 kB)
Collecting importlib-metadata>=4.12.0 (from pycaret[full])
  Downloading importlib_metadata-8.4.0-py3-none-any.whl.metadata (4.7
kB)
Collecting opentelemetry-semantic-conventions==0.48b0 (from
opentelemetry-sdk<3,>=1.9.0->mlflow-skinny==2.16.2->mlflow>=2.0.0-
>pycaret[full])
  Downloading opentelemetry_semantic_conventions-0.48b0-py3-none-
any.whl.metadata (2.4 kB)
Collecting faker (from polyfactory>=2.6.3->litestar>=2.8.3-
>evidently~=0.4.16->pycaret[full])
  Downloading Faker-29.0.0-py3-none-any.whl.metadata (15 kB)
Requirement already satisfied: wrapt<2,>=1.10 in
/usr/local/lib/python3.10/dist-packages (from deprecated>=1.2.6-
>opentelemetry-api<3,>=1.9.0->mlflow-skinny==2.16.2->mlflow>=2.0.0-
>pycaret[full]) (1.16.0)
Collecting smmap<6,>=3.0.1 (from gitdb<5,>=4.0.1->gitpython<4,>=3.1.9-
>mlflow-skinny==2.16.2->mlflow>=2.0.0->pycaret[full])
  Downloading smmap-5.0.1-py3-none-any.whl.metadata (4.3 kB)
Requirement already satisfied: pyasn1-modules>=0.2.1 in
/usr/local/lib/python3.10/dist-packages (from google-auth~=2.0-
>databricks-sdk<1,>=0.20.0->mlflow-skinny==2.16.2->mlflow>=2.0.0-
>pycaret[full]) (0.4.1)
Requirement already satisfied: rsa<5,>=3.1.4 in
/usr/local/lib/python3.10/dist-packages (from google-auth~=2.0-
>databricks-sdk<1,>=0.20.0->mlflow-skinny==2.16.2->mlflow>=2.0.0-
>pycaret[full]) (4.9)
Requirement already satisfied: notebook-shim>=0.2.3 in
/usr/local/lib/python3.10/dist-packages (from nbclassic>=0.4.7-
>notebook>=4.4.1->widgetsnbextension~=3.6.0->ipywidgets>=7.6.5-
>pycaret[full]) (0.2.4)

```

Requirement already satisfied: bleach in
/usr/local/lib/python3.10/dist-packages (from nbconvert>=5-
>notebook>=4.4.1->widgetsnbextension~3.6.0->ipywidgets>=7.6.5-
>pycaret[full]) (6.1.0)

Requirement already satisfied: defusedxml in
/usr/local/lib/python3.10/dist-packages (from nbconvert>=5-
>notebook>=4.4.1->widgetsnbextension~3.6.0->ipywidgets>=7.6.5-
>pycaret[full]) (0.7.1)

Requirement already satisfied: entrypoints>=0.2.2 in
/usr/local/lib/python3.10/dist-packages (from nbconvert>=5-
>notebook>=4.4.1->widgetsnbextension~3.6.0->ipywidgets>=7.6.5-
>pycaret[full]) (0.4)

Requirement already satisfied: jupyterlab-pygments in
/usr/local/lib/python3.10/dist-packages (from nbconvert>=5-
>notebook>=4.4.1->widgetsnbextension~3.6.0->ipywidgets>=7.6.5-
>pycaret[full]) (0.3.0)

Requirement already satisfied: mistune<2,>=0.8.1 in
/usr/local/lib/python3.10/dist-packages (from nbconvert>=5-
>notebook>=4.4.1->widgetsnbextension~3.6.0->ipywidgets>=7.6.5-
>pycaret[full]) (0.8.4)

Requirement already satisfied: nbclient>=0.5.0 in
/usr/local/lib/python3.10/dist-packages (from nbconvert>=5-
>notebook>=4.4.1->widgetsnbextension~3.6.0->ipywidgets>=7.6.5-
>pycaret[full]) (0.10.0)

Requirement already satisfied: pandocfilters>=1.4.1 in
/usr/local/lib/python3.10/dist-packages (from nbconvert>=5-
>notebook>=4.4.1->widgetsnbextension~3.6.0->ipywidgets>=7.6.5-
>pycaret[full]) (1.5.1)

Requirement already satisfied: tinycss2 in
/usr/local/lib/python3.10/dist-packages (from nbconvert>=5-
>notebook>=4.4.1->widgetsnbextension~3.6.0->ipywidgets>=7.6.5-
>pycaret[full]) (1.3.0)

Requirement already satisfied: argon2-cffi-bindings in
/usr/local/lib/python3.10/dist-packages (from argon2-cffi-
>notebook>=4.4.1->widgetsnbextension~3.6.0->ipywidgets>=7.6.5-
>pycaret[full]) (21.2.0)

Requirement already satisfied: jupyter-server<3,>=1.8 in
/usr/local/lib/python3.10/dist-packages (from notebook-shim>=0.2.3-
>nbclassic>=0.4.7->notebook>=4.4.1->widgetsnbextension~3.6.0-
>ipywidgets>=7.6.5->pycaret[full]) (1.24.0)

Requirement already satisfied: pyasn1<0.7.0,>=0.4.6 in
/usr/local/lib/python3.10/dist-packages (from pyasn1-modules>=0.2.1-
>google-auth~2.0->databricks-sdk<1,>=0.20.0->mlflow-skinny==2.16.2-
>mlflow>=2.0.0->pycaret[full]) (0.6.1)

Requirement already satisfied: webencodings in
/usr/local/lib/python3.10/dist-packages (from bleach->nbconvert>=5-
>notebook>=4.4.1->widgetsnbextension~3.6.0->ipywidgets>=7.6.5-
>pycaret[full]) (0.5.1)

Requirement already satisfied: websocket-client in

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/usr/local/lib/python3.10/dist-packages (from jupyter-server<3,>=1.8-
>notebook-shim>=0.2.3->nbclassic>=0.4.7->notebook>=4.4.1-
>widgetsnbextension~=3.6.0->ipywidgets>=7.6.5->pycaret[full]) (1.8.0)
Downloading fairlearn-0.7.0-py3-none-any.whl (177 kB)
_____ 177.5/177.5 kB 17.1 MB/s eta
0:00:00
_____ 139.2/139.2 kB 14.1 MB/s eta
0:00:00
anylinux2014_x86_64.whl (98.7 MB)
_____ 98.7/98.7 MB 9.0 MB/s eta
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_____ 3.4/3.4 MB 33.6 MB/s eta
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_____ 287.8/287.8 kB 21.2 MB/s eta
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_____ 279.8/279.8 kB 23.9 MB/s eta
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_____ 18.1/18.1 MB 89.1 MB/s eta
0:00:00
_____ 318.7/318.7 kB 28.3 MB/s eta
0:00:00
lkit-0.12.0-py3-none-any.whl (37 kB)
Downloading fastapi-0.115.0-py3-none-any.whl (94 kB)
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_____ 13.5/13.5 MB 85.0 MB/s eta
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odes-0.12.2-py2.py3-none-any.whl (20 kB)
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lflow_skinny-2.16.2-py3-none-any.whl (5.6 MB)
_____ 5.6/5.6 MB 104.7 MB/s eta
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oto-4.2.14-py2.py3-none-any.whl (3.3 MB)
_____ 3.3/3.3 MB 102.0 MB/s eta
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_____ 362.8/362.8 kB 31.4 MB/s eta
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anylinux2014_x86_64.whl (65.4 MB)
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_____ 191.5/191.5 kB 18.9 MB/s eta
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anylinux1_x86_64.whl (11.3 MB)

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0:00:00	anylinux1_x86_64.whl (66.6 MB)	11.3/11.3 MB 98.2 MB/s eta
0:00:00	ize-0.10.2-py2.py3-none-any.whl (107 kB)	66.6/66.6 MB 11.3 MB/s eta
0:00:00	anylinux_2_17_x86_64.manylinux2014_x86_64.whl (36.4 MB)	107.8/107.8 kB 10.9 MB/s eta
0:00:00	Downloading shap-0.44.1-cp310-cp310-manylinux_2_12_x86_64.manylinux2010_x86_64.manylinux_2_17_x86_64.manylinux2014_x86_64.whl (535 kB)	535.7/535.7 kB 27.2 MB/s eta
0:00:00		100.0/100.0 kB 9.4 MB/s eta
0:00:00		42.2/42.2 kB 4.5 MB/s eta
0:00:00	ap_learn-0.5.6-py3-none-any.whl (85 kB)	85.7/85.7 kB 10.0 MB/s eta
0:00:00		62.8/62.8 kB 7.1 MB/s eta
0:00:00		242.3/242.3 kB 22.1 MB/s eta
0:00:00		356.2/356.2 kB 33.3 MB/s eta
0:00:00	ageHash-4.3.1-py2.py3-none-any.whl (296 kB)	296.5/296.5 kB 28.9 MB/s eta
0:00:00		96.9/96.9 kB 9.2 MB/s eta
0:00:00	bic-1.13.2-py3-none-any.whl (232 kB)	233.0/233.0 kB 24.2 MB/s eta
0:00:00		12.6/12.6 MB 116.8 MB/s eta
0:00:00	ponents-1.6.0-py3-none-any.whl (222 kB)	222.5/222.5 kB 23.7 MB/s eta
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0:00:00		128.2/128.2 kB 14.6 MB/s eta
0:00:00		85.0/85.0 kB 9.7 MB/s eta

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58.3/58.3 kB 5.8 MB/s eta
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76.4/76.4 kB 9.1 MB/s eta
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etry-0.0.9-py3-none-any.whl (10 kB)
Downloading jmespath-1.0.1-py3-none-any.whl (20 kB)
Downloading jupyter_dash-0.4.2-py3-none-any.whl (23 kB)
Downloading litestar-2.11.0-py3-none-any.whl (538 kB)
538.4/538.4 kB 44.6 MB/s eta
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ultimethod-1.12-py3-none-any.whl (10 kB)
Downloading multiprocessing-0.70.16-py310-none-any.whl (134 kB)
134.8/134.8 kB 15.1 MB/s eta
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anylinux_2_17_x86_64.manylinux2014_x86_64.whl (686 kB)
686.1/686.1 kB 52.2 MB/s eta
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l-24.7.0-py3-none-any.whl (24 kB)
Downloading pynndescent-0.5.13-py3-none-any.whl (56 kB)
56.9/56.9 kB 6.5 MB/s eta
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ultipart-0.0.9-py3-none-any.whl (22 kB)
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169.2/169.2 kB 19.4 MB/s eta
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anylinux_2_17_x86_64.manylinux2014_x86_64.whl (10.3 MB)
10.3/10.3 MB 81.3 MB/s eta
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82.7/82.7 kB 9.4 MB/s eta
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-3.141.0-py2.py3-none-any.whl (904 kB)
904.6/904.6 kB 48.9 MB/s eta
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antic_version-2.10.0-py2.py3-none-any.whl (15 kB)
Downloading starlette-0.38.5-py3-none-any.whl (71 kB)
71.4/71.4 kB 7.7 MB/s eta
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101.7/101.7 kB 10.3 MB/s eta
0:00:00
62.3/62.3 kB 6.6 MB/s eta
0:00:00
anylinux_2_17_x86_64.manylinux2014_x86_64.whl (53 kB)
53.6/53.6 kB 6.0 MB/s eta
0:00:00
104.8/104.8 kB 10.9 MB/s eta
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anylinux2014_x86_64.whl (78 kB)
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py-0.4.0-py3-none-any.whl (5.8 kB)
Downloading flask_simplelogin-0.1.3-py3-none-any.whl (7.3 kB)
Downloading oyaml-1.0-py2.py3-none-any.whl (3.0 kB)
Downloading pydub-0.25.1-py2.py3-none-any.whl (32 kB)
Downloading xmltodict-0.13.0-py2.py3-none-any.whl (10.0 kB)
Downloading aniso8601-9.0.1-py2.py3-none-any.whl (52 kB)
----- 52.8/52.8 kB 5.8 MB/s eta
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e-4.11.1-py3-none-any.whl (144 kB)
----- 144.2/144.2 kB 15.0 MB/s eta
0:00:00
anylinux_2_17_x86_64.manylinux2014_x86_64.whl (6.6 MB)
----- 6.6/6.6 MB 41.2 MB/s eta
0:00:00
----- 242.2/242.2 kB 23.5 MB/s eta
0:00:00
----- 555.1/555.1 kB 42.3 MB/s eta
0:00:00
----- 116.3/116.3 kB 13.3 MB/s eta
0:00:00
anylinux_2_28_x86_64.whl (6.5 MB)
----- 6.5/6.5 MB 61.6 MB/s eta
0:00:00
----- 207.3/207.3 kB 21.5 MB/s eta
0:00:00
----- 203.2/203.2 kB 21.8 MB/s eta
0:00:00
anylinux_2_5_x86_64.manylinux1_x86_64.manylinux_2_17_x86_64.manylinux2
014_x86_64.whl (341 kB)
----- 341.4/341.4 kB 31.4 MB/s eta
0:00:00
sgspec-0.18.6-cp310-cp310-
manylinux_2_17_x86_64.manylinux2014_x86_64.whl (210 kB)
----- 210.3/210.3 kB 21.7 MB/s eta
0:00:00
ypy_extensions-1.0.0-py3-none-any.whl (4.7 kB)
Downloading opentelemetry_api-1.27.0-py3-none-any.whl (63 kB)
----- 64.0/64.0 kB 7.4 MB/s eta
0:00:00
portlib_metadata-8.4.0-py3-none-any.whl (26 kB)
Downloading opentelemetry_sdk-1.27.0-py3-none-any.whl (110 kB)
----- 110.5/110.5 kB 12.8 MB/s eta
0:00:00
```

```

etry_semantic_conventions-0.48b0-py3-none-any.whl (149 kB)
----- 149.7/149.7 kB 16.9 MB/s eta
0:00:00
----- 58.3/58.3 kB 6.5 MB/s eta
0:00:00
----- 778.9/778.9 kB 42.2 MB/s eta
0:00:00
anylinux_2_17_x86_64.manylinux2014_x86_64.whl (3.4 MB)
----- 3.4/3.4 MB 58.7 MB/s eta
0:00:00
anylinux_2_17_x86_64.manylinux2014_x86_64.whl (425 kB)
----- 425.7/425.7 kB 33.1 MB/s eta
0:00:00
anylinux_2_5_x86_64.manylinux1_x86_64.manylinux_2_17_x86_64.manylinux2
014_x86_64.whl (130 kB)
----- 130.2/130.2 kB 11.7 MB/s eta
0:00:00
s-3.1.2-py3-none-any.whl (145 kB)
----- 146.0/146.0 kB 13.7 MB/s eta
0:00:00
l-1.9.2-py3-none-any.whl (17 kB)
Downloading appdirs-1.4.4-py2.py3-none-any.whl (9.6 kB)
Downloading fs-2.4.16-py2.py3-none-any.whl (135 kB)
----- 135.3/135.3 kB 13.4 MB/s eta
0:00:00
----- 78.6/78.6 kB 8.5 MB/s eta
0:00:00
anylinux_2_17_x86_64.manylinux2014_x86_64.whl (4.5 MB)
----- 4.5/4.5 MB 80.8 MB/s eta
0:00:00
----- 62.7/62.7 kB 5.3 MB/s eta
0:00:00
----- 1.8/1.8 MB 62.6 MB/s eta
0:00:00
anylinux_2_5_x86_64.manylinux1_x86_64.manylinux_2_17_x86_64.manylinux2
014_x86_64.whl (254 kB)
----- 254.1/254.1 kB 22.4 MB/s eta
0:00:00
map-5.0.1-py3-none-any.whl (24 kB)
Building wheels for collected packages: htmlmin, fugue-sql-antlr,
dash-cytoscape
  Building wheel for htmlmin (setup.py) ... lmin: filename=htmlmin-
0.1.12-py3-none-any.whl size=27081
sha256=8869c3c04379efcde1434111abede7974bf402e770616f79a97c16f9e85e87b
2
  Stored in directory:
/root/.cache/pip/wheels/dd/91/29/a79cecb328d01739e64017b6fb9a1ab9d8cb1
853098ec5966d
  Building wheel for fugue-sql-antlr (setup.py) ... e=fugue_sql_antlr-

```


0.2.2-py3-none-any.whl size=158202
sha256=61e2de42bb104029b375cac2c7ae60de24fe841d3ea5734eb128c03d672d8089

Stored in directory:

/root/.cache/pip/wheels/2b/be/4b/27ebc4ae02e605628d7bbe2a49ab875eb84275a1ddb46cbe2c

Building wheel for dash-cytoscape (setup.py) ... e=dash_cytoscape-1.0.2-py3-none-any.whl size=4010717
sha256=10365a27a1efc56f5e84993f2a694b5c4ef5a3a1439dfd812a84dd41fd6c2f09

Stored in directory:

/root/.cache/pip/wheels/91/23/5e/56fa701c668444b121ad2353a96478179dc49086a9c44ee930

Successfully built htmlmin fugue-sql-antlr dash-cytoscape
Installing collected packages: pydub, htmlmin, dash-testing-stub, appdirs, antlr4-python3-runtime, aniso8601, zope.interface, zope.event, xmldict, wtforms, Werkzeug, websockets, watchdog, waitress, uvloop, ujson, tomlkit, tensorboardX, smmap, slicer, semantic-version, selenium, scipy, ruff, PyWavelets, python-multipart, python-dotenv, pyaml, oyaml, mypy-extensions, multimethod, msgspec, Mako, m2cgen, jmespath, importlib-metadata, httptools, h11, gunicorn, graphql-core, fs, ffmpeg, dynaconf, dill, deprecated, dacite, daal, colorlog, aplr, ansi2html, aiofiles, watchfiles, uvicorn, typing-inspect, starlette, responses, percy, opentelemetry-api, multiprocessing, iterative-telemetry, imagehash, httpcore, graphql-relay, gitdb, gevent, faker, docker, daal4py, botocore, alembic, visions, triad, shap, scikit-optimize, scikit-learn-intelex, SALib, s3transfer, rich-click, pynndescent, polyfactory, phik, optuna, opentelemetry-semantic-conventions, kmodes, interpret-core, httpx, graphene, gitpython, Flask-WTF, fastapi, fairlearn, dtreeviz, databricks-sdk, dask-expr, catboost, umap-learn, ray, optuna-integration, opentelemetry-sdk, litestar, jupyter-dash, gradio-client, fugue-sql-antlr, flask-simplelogin, dash-cytoscape, dash-bootstrap-components, dash-auth, boto3, adagio, ydata-profiling, qpd, moto, mlflow-skinny, gradio, explainerdashboard, evidently, tune-sklearn, mlflow, interpret, fugue, statsforecast

Attempting uninstall: Werkzeug

Found existing installation: Werkzeug 3.0.4

Uninstalling Werkzeug-3.0.4:

Successfully uninstalled Werkzeug-3.0.4

Attempting uninstall: scipy

Found existing installation: scipy 1.14.1

Uninstalling scipy-1.14.1:

Successfully uninstalled scipy-1.14.1

Attempting uninstall: importlib-metadata

Found existing installation: importlib_metadata 8.5.0

Uninstalling importlib_metadata-8.5.0:

Successfully uninstalled importlib_metadata-8.5.0

Successfully installed Flask-WTF-1.2.1 Mako-1.3.5 PyWavelets-1.7.0

```
SALib-1.5.1 Werkzeug-2.3.8 adagio-0.2.6 aiofiles-23.2.1 alembic-1.13.2
aniso8601-9.0.1 ansi2html-1.9.2 antlr4-python3-runtime-4.11.1 aplr-
10.6.3 appdirs-1.4.4 boto3-1.35.23 botocore-1.35.23 catboost-1.2.7
colorlog-6.8.2 daal-2024.7.0 daal4py-2024.7.0 dacite-1.8.1 dash-auth-
2.3.0 dash-bootstrap-components-1.6.0 dash-cytoscape-1.0.2 dash-
testing-stub-0.0.2 dask-expr-1.1.10 databricks-sdk-0.32.3 deprecated-
1.2.14 dill-0.3.8 docker-7.1.0 dtreeviz-2.2.2 dynaconf-3.2.6
evidently-0.4.37 explainerdashboard-0.4.7 fairlearn-0.7.0 faker-29.0.0
fastapi-0.115.0 ffmpeg-0.4.0 flask-simplelogin-0.1.3 fs-2.4.16 fugue-
0.8.7 fugue-sql-antlr-0.2.2 gevent-24.2.1 gitdb-4.0.11 gitpython-
3.1.43 gradio-4.44.0 gradio-client-1.3.0 graphene-3.3 graphql-core-
3.2.4 graphql-relay-3.2.0 gunicorn-23.0.0 h11-0.14.0 htmlmin-0.1.12
httpcore-1.0.5 httptools-0.6.1 httpx-0.27.2 imagehash-4.3.1 importlib-
metadata-8.4.0 interpret-0.6.3 interpret-core-0.6.3 iterative-
telemetry-0.0.9 jmespath-1.0.1 jupyter-dash-0.4.2 kmodes-0.12.2
litestar-2.11.0 m2cgen-0.10.0 mlflow-2.16.2 mlflow-skinny-2.16.2 moto-
4.2.14 msgspec-0.18.6 multimethod-1.12 multiprocessing-0.70.16 mpy-
extensions-1.0.0 opentelemetry-api-1.27.0 opentelemetry-sdk-1.27.0
opentelemetry-semantic-conventions-0.48b0 optuna-4.0.0 optuna-
integration-4.0.0 oyaml-1.0 percy-2.0.2 phik-0.12.4 polyfactory-2.16.2
pyaml-24.7.0 pydub-0.25.1 pynndescent-0.5.13 python-dotenv-1.0.1
python-multipart-0.0.9 qpd-0.4.4 ray-2.36.0 responses-0.25.3 rich-
click-1.8.3 ruff-0.6.5 s3transfer-0.10.2 scikit-learn-intelx-2024.7.0
scikit-optimize-0.10.2 scipy-1.11.4 selenium-3.141.0 semantic-version-
2.10.0 shap-0.44.1 slicer-0.0.7 smmap-5.0.1 starlette-0.38.5
statsforecast-1.5.0 tensorboardX-2.6.2.2 tomlkit-0.12.0 triad-0.9.8
tune-sklearn-0.5.0 typing-inspect-0.9.0 ujson-5.10.0 umap-learn-0.5.6
uvicorn-0.30.6 uvloop-0.20.0 visions-0.7.6 waitress-3.0.0 watchdog-
5.0.2 watchfiles-0.24.0 websockets-12.0 wtforms-3.1.2 xmltodict-0.13.0
ydata-profiling-4.10.0 zope.event-5.0 zope.interface-7.0.3
```

```
{"id": "ecc7731a45fb447ebfe0f7061c8e0593", "pip_warning": {"packages":
["importlib_metadata"]}}
```

```
import pandas as pd
from sklearn.model_selection import train_test_split

dataSet = pd.read_csv('~\\HeartDiseaseTrain-Test.csv');
data, test_data = train_test_split(dataSet, test_size=0.2,
random_state=42)
```

```
data.head()
```

```
{"summary": "{\n  \"name\": \"data\", \n  \"rows\": 820, \n  \"fields\":\n  [\n    {\n      \"column\": \"age\", \n      \"properties\": {\n        \"dtype\": \"number\", \n        \"std\": 9, \n        \"min\": 29, \n        \"max\": 77, \n        \"num_unique_values\": 41, \n        \"samples\":\n        [\n          50, \n          45, \n          57\n        ], \n        \"semantic_type\": \"\", \n        \"description\": \"\"\n      }\n    }, \n    {\n      \"column\": \"sex\", \n      \"properties\": {\n
```

```

\ "dtype\ ": \ "category\ ",\n          \ "num_unique_values\ ": 2,\n
\ "samples\ ": [\n          \ "Female\ ",\n          \ "Male\ "\n          ],\n
n          \ "semantic_type\ ": \ "\",\n          \ "description\ ": \ "\n
}\n      },\n      {\n          \ "column\ ": \ "chest_pain_type\ ",\n
\ "properties\ ": {\n          \ "dtype\ ": \ "category\ ",\n
\ "num_unique_values\ ": 4,\n          \ "samples\ ": [\n          \ "Typical
angina\ ",\n          \ "Asymptomatic\ "\n          ],\n
\ "semantic_type\ ": \ "\",\n          \ "description\ ": \ "\n      }\n
n      },\n      {\n          \ "column\ ": \ "resting_blood_pressure\ ",\n
\ "properties\ ": {\n          \ "dtype\ ": \ "number\ ",\n          \ "std\ ":
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\ "num_unique_values\ ": 49,\n          \ "samples\ ": [\n          130,\n
154\n          ],\n          \ "semantic_type\ ": \ "\",\n
\ "description\ ": \ "\n      }\n      },\n      {\n          \ "column\ ":
\ "cholesterol\ ",\n          \ "properties\ ": {\n          \ "dtype\ ":
\ "number\ ",\n          \ "std\ ": 49,\n          \ "min\ ": 126,\n
\ "max\ ": 564,\n          \ "num_unique_values\ ": 152,\n
\ "samples\ ": [\n          226,\n          281\n          ],\n
\ "semantic_type\ ": \ "\",\n          \ "description\ ": \ "\n      }\n
n      },\n      {\n          \ "column\ ": \ "fasting_blood_sugar\ ",\n
\ "properties\ ": {\n          \ "dtype\ ": \ "category\ ",\n
\ "num_unique_values\ ": 2,\n          \ "samples\ ": [\n          \ "Greater
than 120 mg/ml\ ",\n          \ "Lower than 120 mg/ml\ "\n          ],\n
\ "semantic_type\ ": \ "\",\n          \ "description\ ": \ "\n      }\n
n      },\n      {\n          \ "column\ ": \ "rest_ecg\ ",\n          \ "properties\ ":
{\n          \ "dtype\ ": \ "category\ ",\n          \ "num_unique_values\ ":
3,\n          \ "samples\ ": [\n          \ "Normal\ ",\n          \ "ST-T
wave abnormality\ "\n          ],\n          \ "semantic_type\ ": \ "\",\n
\ "description\ ": \ "\n      }\n      },\n      {\n          \ "column\ ":
\ "Max_heart_rate\ ",\n          \ "properties\ ": {\n          \ "dtype\ ":
\ "number\ ",\n          \ "std\ ": 22,\n          \ "min\ ": 71,\n
\ "max\ ": 202,\n          \ "num_unique_values\ ": 91,\n
\ "samples\ ": [\n          141,\n          136\n          ],\n
\ "semantic_type\ ": \ "\",\n          \ "description\ ": \ "\n      }\n
n      },\n      {\n          \ "column\ ": \ "exercise_induced_angina\ ",\n
\ "properties\ ": {\n          \ "dtype\ ": \ "category\ ",\n
\ "num_unique_values\ ": 2,\n          \ "samples\ ": [\n          \ "Yes\ ",\n
\ "No\ "\n          ],\n          \ "semantic_type\ ": \ "\",\n
\ "description\ ": \ "\n      }\n      },\n      {\n          \ "column\ ":
\ "oldpeak\ ",\n          \ "properties\ ": {\n          \ "dtype\ ": \ "number\ ",\n
\ "std\ ": 1.1411238121267029,\n          \ "min\ ": 0.0,\n
\ "max\ ": 6.2,\n          \ "num_unique_values\ ": 40,\n
\ "samples\ ": [\n          4.2,\n          3.0\n          ],\n
\ "semantic_type\ ": \ "\",\n          \ "description\ ": \ "\n      }\n
n      },\n      {\n          \ "column\ ": \ "slope\ ",\n          \ "properties\ ": {\n
\ "dtype\ ": \ "category\ ",\n          \ "num_unique_values\ ": 3,\n
\ "samples\ ": [\n          \ "Downsloping\ ",\n          \ "Flat\ "\n          ],\n
\ "semantic_type\ ": \ "\",\n          \ "description\ ": \ "\n
}\n      },\n      {\n          \ "column\ ":

```

```

\"vessels_colored_by_flourosopy\", \n      \"properties\": {\n
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\"samples\": [\n      \"Zero\", \n      \"Four\" \n      ], \n
\"semantic_type\": \"\", \n      \"description\": \"\" \n      } \n
    }, \n    {\n      \"column\": \"thalassemia\", \n
\"properties\": {\n      \"dtype\": \"category\", \n
\"num_unique_values\": 4, \n      \"samples\": [\n
\"Reversible Defect\", \n      \"No\" \n      ], \n
\"semantic_type\": \"\", \n      \"description\": \"\" \n      } \n
    }, \n    {\n      \"column\": \"target\", \n      \"properties\": \n
{\n      \"dtype\": \"number\", \n      \"std\": 0, \n
\"min\": 0, \n      \"max\": 1, \n      \"num_unique_values\": 2, \n
\"samples\": [\n      1, \n      0 \n      ], \n
\"semantic_type\": \"\", \n      \"description\": \"\" \n      } \n
    } \n  ] \n }\", \"type\": \"dataframe\", \"variable_name\": \"data\"}

```

```
data.isnull().sum()
```

```

age      0
sex      0
chest_pain_type      0
resting_blood_pressure      0
cholesterol      0
fasting_blood_sugar      0
rest_ecg      0
Max_heart_rate      0
exercise_induced_angina      0
oldpeak      0
slope      0
vessels_colored_by_flourosopy      0
thalassemia      0
target      0
dtype: int64

```

```
from pycaret.classification import *
```

```
clf = setup(data, target='target', use_gpu=True)
```

```

[LightGBM] [Warning] There are no meaningful features which satisfy
the provided configuration. Decreasing Dataset parameters
min_data_in_bin or min_data_in_leaf and re-constructing Dataset might
resolve this warning.
[LightGBM] [Info] Number of positive: 1, number of negative: 1
[LightGBM] [Info] This is the GPU trainer!!
[LightGBM] [Info] Total Bins 0
[LightGBM] [Info] Number of data points in the train set: 2, number of
used features: 0
[LightGBM] [Warning] There are no meaningful features which satisfy
the provided configuration. Decreasing Dataset parameters
min_data_in_bin or min_data_in_leaf and re-constructing Dataset might

```

```
resolve this warning.
[LightGBM] [Warning] Using sparse features with CUDA is currently not
supported.
[LightGBM] [Info] Number of positive: 1, number of negative: 1
[LightGBM] [Warning] There are no meaningful features which satisfy
the provided configuration. Decreasing Dataset parameters
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[LightGBM] [Info] Number of data points in the train set: 2, number of
used features: 0
[LightGBM] [Warning] There are no meaningful features which satisfy
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[LightGBM] [Info] Number of data points in the train set: 2, number of
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the provided configuration. Decreasing Dataset parameters
min_data_in_bin or min_data_in_leaf and re-constructing Dataset might
resolve this warning.
[LightGBM] [Info] Number of positive: 1, number of negative: 1
[LightGBM] [Info] This is the GPU trainer!!
[LightGBM] [Info] Total Bins 0
[LightGBM] [Info] Number of data points in the train set: 2, number of
used features: 0
[LightGBM] [Warning] There are no meaningful features which satisfy
the provided configuration. Decreasing Dataset parameters
min_data_in_bin or min_data_in_leaf and re-constructing Dataset might
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```

```
[LightGBM] [Warning] Using sparse features with CUDA is currently not supported.
[LightGBM] [Info] Number of positive: 1, number of negative: 1
[LightGBM] [Warning] There are no meaningful features which satisfy the provided configuration. Decreasing Dataset parameters min_data_in_bin or min_data_in_leaf and re-constructing Dataset might resolve this warning.
[LightGBM] [Info] Number of positive: 1, number of negative: 1
[LightGBM] [Info] This is the GPU trainer!!
[LightGBM] [Info] Total Bins 0
[LightGBM] [Info] Number of data points in the train set: 2, number of used features: 0
[LightGBM] [Warning] There are no meaningful features which satisfy the provided configuration. Decreasing Dataset parameters min_data_in_bin or min_data_in_leaf and re-constructing Dataset might resolve this warning.
[LightGBM] [Warning] Using sparse features with CUDA is currently not supported.
[LightGBM] [Info] Number of positive: 1, number of negative: 1
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[LightGBM] [Info] Number of positive: 1, number of negative: 1
[LightGBM] [Info] This is the GPU trainer!!
[LightGBM] [Info] Total Bins 0
[LightGBM] [Info] Number of data points in the train set: 2, number of used features: 0
[LightGBM] [Warning] There are no meaningful features which satisfy the provided configuration. Decreasing Dataset parameters min_data_in_bin or min_data_in_leaf and re-constructing Dataset might resolve this warning.
[LightGBM] [Warning] Using sparse features with CUDA is currently not supported.
[LightGBM] [Info] Number of positive: 1, number of negative: 1
<pandas.io.formats.style.Styler at 0x7ccadf32bcd0>
[LightGBM] [Warning] There are no meaningful features which satisfy the provided configuration. Decreasing Dataset parameters min_data_in_bin or min_data_in_leaf and re-constructing Dataset might resolve this warning.
[LightGBM] [Info] Number of positive: 1, number of negative: 1
[LightGBM] [Info] This is the GPU trainer!!
[LightGBM] [Info] Total Bins 0
[LightGBM] [Info] Number of data points in the train set: 2, number of used features: 0
[LightGBM] [Warning] There are no meaningful features which satisfy the provided configuration. Decreasing Dataset parameters min_data_in_bin or min_data_in_leaf and re-constructing Dataset might
```

```

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[LightGBM] [Warning] Using sparse features with CUDA is currently not
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[LightGBM] [Info] Number of positive: 1, number of negative: 1
[LightGBM] [Warning] There are no meaningful features which satisfy
the provided configuration. Decreasing Dataset parameters
min_data_in_bin or min_data_in_leaf and re-constructing Dataset might
resolve this warning.
[LightGBM] [Info] Number of positive: 1, number of negative: 1
[LightGBM] [Info] This is the GPU trainer!!
[LightGBM] [Info] Total Bins 0
[LightGBM] [Info] Number of data points in the train set: 2, number of
used features: 0
[LightGBM] [Warning] There are no meaningful features which satisfy
the provided configuration. Decreasing Dataset parameters
min_data_in_bin or min_data_in_leaf and re-constructing Dataset might
resolve this warning.
[LightGBM] [Warning] Using sparse features with CUDA is currently not
supported.
[LightGBM] [Info] Number of positive: 1, number of negative: 1

best_model = compare_models()

<IPython.core.display.HTML object>

<pandas.io.formats.style.Styler at 0x7cca671e2c80>

{"model_id": "bca140d493444fc0a0bbcd5acc6d0772", "version_major": 2, "vers
ion_minor": 0}

<IPython.core.display.HTML object>

final_model = finalize_model(best_model)
print(final_model)

Pipeline(memory=Memory(location=None),
          steps=[('numerical_imputer',
                  TransformerWrapper(exclude=None,
                                     include=['age',
'resting_blood_pressure',
                                     'cholesterol',
'Max_heart_rate',
                                     'oldpeak'],
transformer=SimpleImputer(add_indicator=False,
copy=True,
fill_value=None,
keep_empty_features=False,

```

```

missing_values=nan,
strategy='mean'))),
    ('categorical_imputer',
     Transformer...
     ExtraTreesClassifier(bootstrap=False, ccp_alpha=0.0,
                           class_weight=None,
criterion='gini',
                           max_depth=None,
max_features='sqrt',
                           max_leaf_nodes=None,
max_samples=None,
                           min_impurity_decrease=0.0,
                           min_samples_leaf=1,
min_samples_split=2,
                           min_weight_fraction_leaf=0.0,
                           monotonic_cst=None,
n_estimators=100,
                           n_jobs=-1, oob_score=False,
                           random_state=1377, verbose=0,
                           warm_start=False))],
    verbose=False)

evaluate_model(final_model)

{"model_id": "29bbd597fce54cef9291444e0a52e46e", "version_major": 2, "version_minor": 0}

predictions = predict_model(final_model, data=test_data)

predictions.head()

<pandas.io.formats.style.Styler at 0x7ccadf3284f0>

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