

6 AutoML Libraries For Your Next Project



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1. FLAML

```
# !pip install flaml
from flaml import AutoML

automl = AutoML()
automl.fit(X_train, y_train, task="classification")
```

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2. Pycaret

```
# !pip install pycaret
# Classification Functional API Example

# loading sample dataset
from pycaret.datasets import get_data
data = get_data('juice')

# init setup
from pycaret.classification import *
s = setup(data, target = 'Purchase', session_id = 123)

# model training and selection
best = compare_models()

# evaluate trained model
evaluate_model(best)

# predict on hold-out/test set
pred_holdout = predict_model(best)

# predict on new data
new_data = data.copy().drop('Purchase', axis = 1)
predictions = predict_model(best, data = new_data)

# save model
save_model(best, 'best_pipeline')
```

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3. mljar-supervised

```
# !pip install mljar-supervised
import pandas as pd
from sklearn.model_selection import train_test_split
from supervised.autoML import AutoML

df = pd.read_csv("data.csv")
X_train, X_test, y_train, y_test = train_test_split(
    df[df.columns[:-1]], df["income"], test_size=0.25
)

automl = AutoML()
automl.fit(X_train, y_train)

predictions = automl.predict(X_test)
```

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4. Autogluon

```
# !pip install autogluon
from autogluon.tabular import TabularPredictor
predictor = TabularPredictor(label="class").fit("train.csv")
predictions = predictor.predict("test.csv")
```

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5. Auto_ViML

```
# !pip install autoviml
from autoviml.Auto_ViML import Auto_ViML

model, features, trainm, testm = Auto_ViML(
    train,
    target,
    test,
    sample_submission,
    hyper_param="GS",
    feature_reduction=True,
    scoring_parameter="weighted-f1",
    KMeans_Featurizer=False,
    Boosting_Flag=False,
    Binning_Flag=False,
    Add_Poly=False,
    Stacking_Flag=False,
    Imbalanced_Flag=False,
    verbose=0,
)
```

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6. Autokeras

```
# !pip install autokeras
import autokeras as ak

clf = ak.ImageClassifier()
clf.fit(x_train, y_train)
results = clf.predict(x_test)
```

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