



# Train ML Model with 3 lines of code



INTRODUCTION TO  
**FLAML**





FLAML is a lightweight Python library that finds accurate machine learning models automatically, efficiently and economically.

# Installation

1. For regular use:

**pip install flaml**

2. For Jupyter Notebook use:

**pip install flaml[notebook]**





# AutoML Settings

```
automl_settings = {  
    "time_budget": 60,  
    "metric": 'accuracy',  
    "task": 'classification'  
}
```

You can modify **time\_budget** to any number of **seconds**, **metric** to **r2\_score** or any other and finally **task** to either **regression** or **classification**





# Classification Example

Sample Dataset : **Iris**

```
autoML = AutoML()  
autoML.fit(X_train, y_train, **automl_settings)  
  
print(autoML.model.estimator)  
print(autoML.score(X_test, y_test))
```

## # Output

**BEST MODEL:** ExtraTreesClassifier

**ACCURACY\_SCORE:** 0.95





# Regression Example

Sample Dataset : **Taxis**

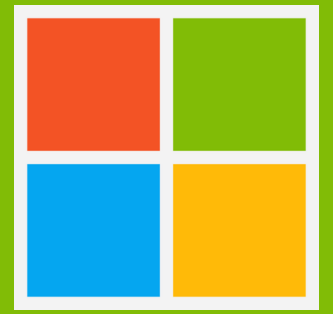
```
autoML = AutoML()  
autoML.fit(X_train, y_train, **automl_settings)  
  
print(autoML.model.estimator)  
print(autoML.score(X_test, y_test))
```

## # Output

**BEST MODEL:** LGBMRegressor

**R2\_SCORE:** 0.99





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