

```
y_train = df_train["duration"].values
y_val = df_val["duration"].values
return X_train, X_val, y_train, y_val, dv
```

```
PY ■ CUSTOM ▼ 🕒 train_model
Positional arguments for decorated function:
   data → create_features
       import mlflow
       import xgboost as xgb
       import pickle
       from pathlib import Path
       from sklearn.metrics import root_mean_squared_error
       def main(X_train, X_val, y_train, y_val, dv):
           mlflow.set_tracking_uri("http://localhost:5000"
           mlflow.set_experiment("nyc-taxi-experiment")
           with mlflow.start_run() as run:
               dtrain = xgb.DMatrix(X_train, label=y_train
               dval = xgb.DMatrix(X_val, label=y_val)
               best_params = {
                   'learning_rate': 0.09585355369315604,
                   'max_depth': 30,
                   'min_child_weight': 1.060597050922164,
                   'objective': 'reg:linear',
                   'reg_alpha': 0.018060244040060163,
                   'reg_lambda': 0.011658731377413597,
                   'seed': 42
               mlflow.log_params(best_params)
               booster = xgb.train(
                   params=best_params,
                   dtrain=dtrain,
                   num_boost_round=30,
                   evals=[(dval, 'validation')],
                   early_stopping_rounds=50
               y_pred = booster.predict(dval)
               rmse = root_mean_squared_error(y_val, y_pre
               mlflow.log metric("rmse". rmse)
```

```
Path("models").mkdir(exist_ok=True)
with open("models/preprocessor.b", "wb") as
pickle.dump(dv, f)
mlflow.log_artifact("models/preprocessor.b"

mlflow.xgboost.log_model(booster, artifact_
return run.info.run_id
```

```
PY CUSTOM Write_run_id

Positional arguments for decorated function:

@custom
def transform_custom(data):
    data > train_model

1    def main(run_id: str):
2    with open("run_id.txt", "w") as f:
3    f.write(run_id)
4
```

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