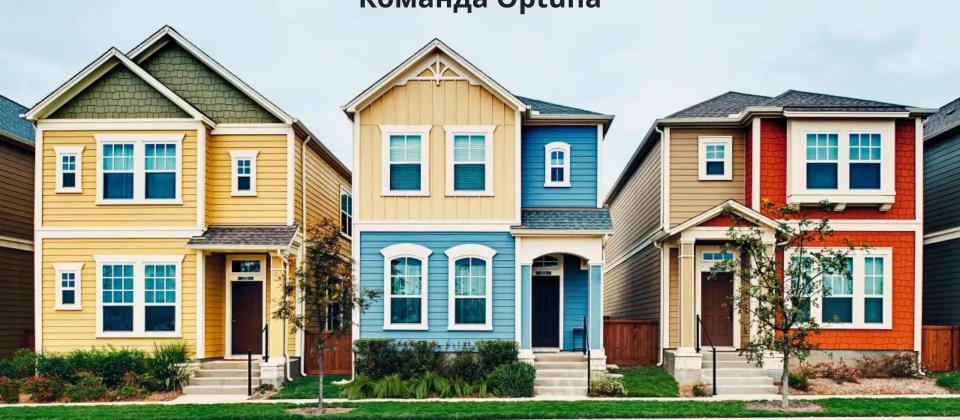
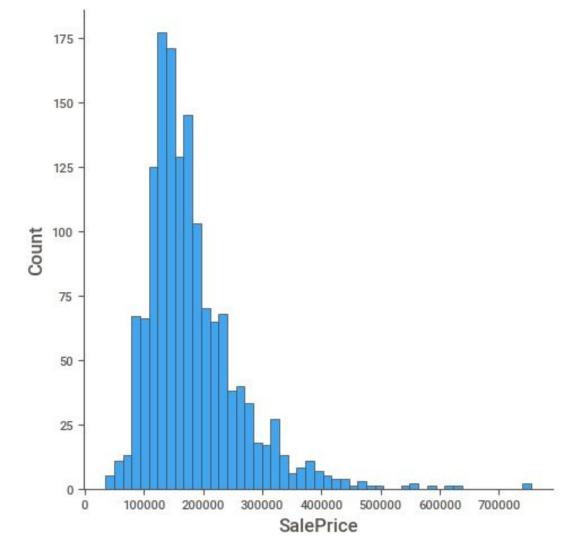
House Prices - Advanced Regression Techniques Команда Optuna



Описание данных

Распределение целевой переменной



Описание данных

Пропущенные значения

Alley MasVnrType MasVnrArea

BsmtQual

BsmtCond

BsmtExposure

BsmtFinType1

BsmtFinType2

Electrical

FireplaceQu

GarageType

GarageYrBlt

GarageFinish

GarageQual GarageCond

PoolQC

Fence

MiscFeature

LotFrontage

872



NaN_count

259

1369

38

37

38

1

690

81 81

81

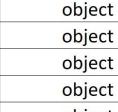
81

81

1453

1179

1406



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data_type

float64

object

object

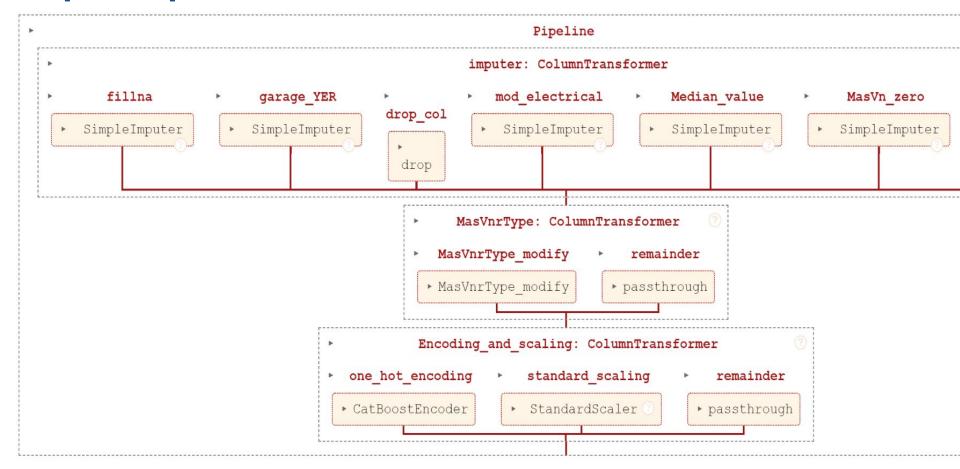
float64







Предобработка



Отбор признаков

1. PCA

pca_explained_ratio = 0.93

2. Feature importance

количество оставленных признаков = 20

3. Lasso

alpha = 0.8

Модели

- CatBoostRegressor()
- RandomForestRegressor()
- XGBoostRegressor()
- StackingRegressor(estimators=[RandomForestRegressor, CatBoostRegressor])
- VotingRegressor(estimators=[RandomForestRegressor, CatBoostRegressor])

Метрики

```
mean_squared_error(np.exp(y_valid), np.exp(y_pred), squared = False)
```

Результат

Место на Kaggle

