

```
In [3]: !pip install lazypredict
```

```
Requirement already satisfied: lazypredict in c:\users\soham\anaconda3\lib\site-packages (0.2.12)
Requirement already satisfied: click in c:\users\soham\anaconda3\lib\site-packages (from lazypredict) (8.1.7)
Requirement already satisfied: scikit-learn in c:\users\soham\anaconda3\lib\site-packages (from lazypredict) (1.4.2)
Requirement already satisfied: pandas in c:\users\soham\anaconda3\lib\site-packages (from lazypredict) (2.2.2)
Requirement already satisfied: tqdm in c:\users\soham\anaconda3\lib\site-packages (from lazypredict) (4.66.4)
Requirement already satisfied: joblib in c:\users\soham\anaconda3\lib\site-packages (from lazypredict) (1.4.2)
Requirement already satisfied: lightgbm in c:\users\soham\anaconda3\lib\site-packages (from lazypredict) (4.5.0)
Requirement already satisfied: xgboost in c:\users\soham\anaconda3\lib\site-packages (from lazypredict) (2.1.1)
Requirement already satisfied: colorama in c:\users\soham\anaconda3\lib\site-packages (from click->lazypredict) (0.4.6)
Requirement already satisfied: numpy>=1.17.0 in c:\users\soham\anaconda3\lib\site-packages (from lightgbm->lazypredict) (1.26.4)
Requirement already satisfied: scipy in c:\users\soham\anaconda3\lib\site-packages (from lightgbm->lazypredict) (1.13.1)
Requirement already satisfied: python-dateutil>=2.8.2 in c:\users\soham\anaconda3\lib\site-packages (from pandas->lazypredict) (2.9.0.post0)
Requirement already satisfied: pytz>=2020.1 in c:\users\soham\anaconda3\lib\site-packages (from pandas->lazypredict) (2024.1)
Requirement already satisfied: tzdata>=2022.7 in c:\users\soham\anaconda3\lib\site-packages (from pandas->lazypredict) (2023.3)
Requirement already satisfied: threadpoolctl>=2.0.0 in c:\users\soham\anaconda3\lib\site-packages (from scikit-learn->lazypredict) (2.2.0)
Requirement already satisfied: six>=1.5 in c:\users\soham\anaconda3\lib\site-packages (from python-dateutil>=2.8.2->pandas->lazypredict) (1.16.0)
```

[illegible]

localhost:8888/doc/tree/lazy prediction .ipynb?

localhost:8888/doc/tree/lazy prediction .ipynb?

[illegible]

(Adjusted R-Squared	R-Squared	RMSE)
Model				
AdaBoostRegressor	NaN	NaN	20000.00	
BaggingRegressor	NaN	NaN	4000.00	
BayesianRidge	NaN	NaN	210555.56	
DecisionTreeRegressor	NaN	NaN	10000.00	
DummyRegressor	NaN	NaN	210555.56	
ElasticNet	NaN	NaN	59915.90	
ElasticNetCV	NaN	NaN	209601.85	
ExtraTreeRegressor	NaN	NaN	20000.00	
ExtraTreesRegressor	NaN	NaN	6200.00	
GammaRegressor	NaN	NaN	57520.98	
GaussianProcessRegressor	NaN	NaN	13596.18	
GradientBoostingRegressor	NaN	NaN	9991.84	
HistGradientBoostingRegressor	NaN	NaN	210555.56	
HuberRegressor	NaN	NaN	48599.84	
KNeighborsRegressor	NaN	NaN	27000.00	
KernelRidge	NaN	NaN	263363.97	
Lars	NaN	NaN	15404.41	
LarsCV	NaN	NaN	15404.41	
Lasso	NaN	NaN	15403.45	
LassoCV	NaN	NaN	11970.02	
LassoLars	NaN	NaN	15403.45	
LassoLarsCV	NaN	NaN	15404.41	
LassoLarsIC	NaN	NaN	15404.41	
LinearRegression	NaN	NaN	15404.41	
LinearSVR	NaN	NaN	59991.00	
MLPRegressor	NaN	NaN	59994.28	
NuSVR	NaN	NaN	129998.00	
OrthogonalMatchingPursuit	NaN	NaN	15404.41	
PassiveAggressiveRegressor	NaN	NaN	51000.00	
PoissonRegressor	NaN	NaN	12099.98	
QuantileRegressor	NaN	NaN	90000.00	

RANSACRegressor	NaN	NaN	16739.13
RandomForestRegressor	NaN	NaN	1100.00
Ridge	NaN	NaN	7191.58
RidgeCV	NaN	NaN	7191.58
SGDRegressor	NaN	NaN	15351.75
SVR	NaN	NaN	89996.91
TransformedTargetRegressor	NaN	NaN	15404.41
TweedieRegressor	NaN	NaN	97575.57
XGBRegressor	NaN	NaN	10000.00
LGBMRegressor	NaN	NaN	210555.56

Time Taken

Model	
AdaBoostRegressor	0.12
BaggingRegressor	0.04
BayesianRidge	0.01
DecisionTreeRegressor	0.01
DummyRegressor	0.01
ElasticNet	0.01
ElasticNetCV	0.07
ExtraTreeRegressor	0.01
ExtraTreesRegressor	0.12
GammaRegressor	0.01
GaussianProcessRegressor	0.02
GradientBoostingRegressor	0.09
HistGradientBoostingRegressor	0.06
HuberRegressor	0.02
KNeighborsRegressor	0.09
KernelRidge	0.01
Lars	0.01
LarsCV	0.02
Lasso	0.01
LassoCV	0.09
LassoLars	0.01
LassoLarsCV	0.02
LassoLarsIC	0.02
LinearRegression	0.01
LinearSVR	0.01
MLPRegressor	0.09
NuSVR	0.01
OrthogonalMatchingPursuit	0.01
PassiveAggressiveRegressor	0.01
PoissonRegressor	0.02
QuantileRegressor	0.01
RANSACRegressor	0.02
RandomForestRegressor	0.18
Ridge	0.01
RidgeCV	0.01
SGDRegressor	0.01
SVR	0.01
TransformedTargetRegressor	0.01
TweedieRegressor	0.01
XGBRegressor	0.13
LGBMRegressor	0.02

ted R-Squared R-Squared RMSE \

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Model			
AdaBoostRegressor	NaN	NaN	20000.00
BaggingRegressor	NaN	NaN	4000.00
BayesianRidge	NaN	NaN	210555.56
DecisionTreeRegressor	NaN	NaN	10000.00

DummyRegressor	NaN	NaN	210555.56
ElasticNet	NaN	NaN	59915.90
ElasticNetCV	NaN	NaN	209601.85
ExtraTreeRegressor	NaN	NaN	20000.00
ExtraTreesRegressor	NaN	NaN	6200.00
GammaRegressor	NaN	NaN	57520.98
GaussianProcessRegressor	NaN	NaN	13596.18
GradientBoostingRegressor	NaN	NaN	9991.84
HistGradientBoostingRegressor	NaN	NaN	210555.56
HuberRegressor	NaN	NaN	48599.84
KNeighborsRegressor	NaN	NaN	27000.00
KernelRidge	NaN	NaN	263363.97
Lars	NaN	NaN	15404.41
LarsCV	NaN	NaN	15404.41
Lasso	NaN	NaN	15403.45
LassoCV	NaN	NaN	11970.02
LassoLars	NaN	NaN	15403.45
LassoLarsCV	NaN	NaN	15404.41
LassoLarsIC	NaN	NaN	15404.41
LinearRegression	NaN	NaN	15404.41
LinearSVR	NaN	NaN	59991.00
MLPRegressor	NaN	NaN	59994.28
NuSVR	NaN	NaN	129998.00
OrthogonalMatchingPursuit	NaN	NaN	15404.41
PassiveAggressiveRegressor	NaN	NaN	51000.00
PoissonRegressor	NaN	NaN	12099.98
QuantileRegressor	NaN	NaN	90000.00
RANSACRegressor	NaN	NaN	16739.13
RandomForestRegressor	NaN	NaN	1100.00
Ridge	NaN	NaN	7191.58
RidgeCV	NaN	NaN	7191.58
SGDRegressor	NaN	NaN	15351.75
SVR	NaN	NaN	89996.91
TransformedTargetRegressor	NaN	NaN	15404.41
TweedieRegressor	NaN	NaN	97575.57
XGBRegressor	NaN	NaN	10000.00
LGBMRegressor	NaN	NaN	210555.56

Time Taken	
Model	
AdaBoostRegressor	0.12
BaggingRegressor	0.04
BayesianRidge	0.01
DecisionTreeRegressor	0.01
DummyRegressor	0.01
ElasticNet	0.01
ElasticNetCV	0.07
ExtraTreeRegressor	0.01
ExtraTreesRegressor	0.12
GammaRegressor	0.01
GaussianProcessRegressor	0.02
GradientBoostingRegressor	0.09
HistGradientBoostingRegressor	0.06
HuberRegressor	0.02
KNeighborsRegressor	0.09
KernelRidge	0.01
Lars	0.01
LarsCV	0.02
Lasso	0.01
LassoCV	0.09

LassoLars	0.01
LassoLarsCV	0.02
LassoLarsIC	0.02
LinearRegression	0.01
LinearSVR	0.01
MLPRegressor	0.09
NuSVR	0.01
OrthogonalMatchingPursuit	0.01
PassiveAggressiveRegressor	0.01
PoissonRegressor	0.02
QuantileRegressor	0.01
RANSACRegressor	0.02
RandomForestRegressor	0.18
Ridge	0.01
RidgeCV	0.01
SGDRegressor	0.01
SVR	0.01
TransformedTargetRegressor	0.01
TweedieRegressor	0.01
XGBRegressor	0.13
LGBMRegressor	0.02)

In []: