

HOUSAGE

Unlocking the Future:-
Predicting Real State
Prices with Magic of AI

Team Members

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Submitted to :-

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DATA CLASSIFICATION MODEL RESULTS



jupyter model



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Trusted

Code

JupyterLab ⌂ Python 3 (ipykernel) ○

[30]: `dataset.head(10)`

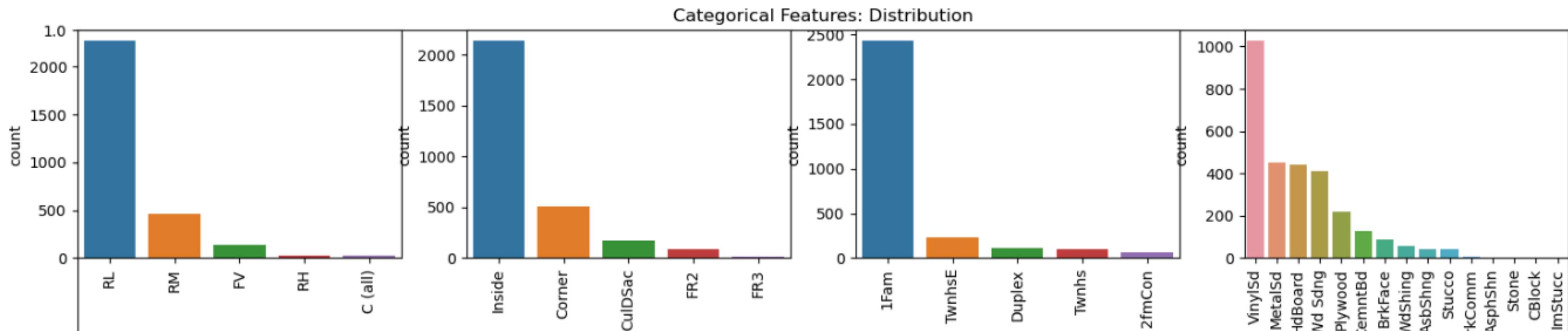
	MSSubClass	MSZoning	LotArea	LotConfig	BldgType	OverallCond	YearBuilt	YearRemodAdd	Exterior1st	BsmtFinSF2	TotalBsmtSF	SalePrice
0	60	RL	8450	Inside	1Fam	5	2003	2003	VinylSd	0.0	856.0	208500.0
1	20	RL	9600	FR2	1Fam	8	1976	1976	MetalSd	0.0	1262.0	181500.0
2	60	RL	11250	Inside	1Fam	5	2001	2002	VinylSd	0.0	920.0	223500.0
3	70	RL	9550	Corner	1Fam	5	1915	1970	Wd Sdng	0.0	756.0	140000.0
4	60	RL	14260	FR2	1Fam	5	2000	2000	VinylSd	0.0	1145.0	250000.0
5	50	RL	14115	Inside	1Fam	5	1993	1995	VinylSd	0.0	796.0	143000.0
6	20	RL	10084	Inside	1Fam	5	2004	2005	VinylSd	0.0	1686.0	307000.0
7	60	RL	10382	Corner	1Fam	6	1973	1973	HdBoard	32.0	1107.0	200000.0
8	50	RM	6120	Inside	1Fam	5	1931	1950	BrkFace	0.0	952.0	129900.0
9	190	RL	7420	Corner	2fmCon	6	1939	1950	MetalSd	0.0	991.0	118000.0

[]:

⟳ ⌁ ⌄ ⌅ ⌆ ⌇ ⌈ ⌉ ⌊ ⌋

```
plt.subplot(11, 4, index)
plt.xticks(rotation=90)
sns.barplot(x=list(y.index), y=y)
index += 1
```

ay, or np.ndarray is deprecated and will raise in a future version.
order = pd.unique(vector)



```
[18]: dataset.drop(['Id'],
                  axis=1,
                  inplace=True)
```

```
mean_absolute_percentage_error(Y_valid, Y_pred)
```

```
[25]: 0.19253113495979124
```

```
[26]: from sklearn.linear_model import LinearRegression

model_LR = LinearRegression()
model_LR.fit(X_train, Y_train)
Y_pred = model_LR.predict(X_valid)

print(mean_absolute_percentage_error(Y_valid, Y_pred))
```

```
0.18741683841600051
```

▼ SVM GIVING LEAST MEAN ABSOLUTE ERROR SO MAXIMUM ACCURACY

SVM SVC is the chosen one

```
[27]: from sklearn import svm
from sklearn.svm import SVC
from sklearn.metrics import mean_absolute_error

model_SVR = svm.SVR()
model_SVR.fit(X_train,Y_train)
Y_pred = model_SVR.predict(X_valid)

print(mean_absolute_percentage_error(Y_valid, Y_pred))
```

```
0.1870512931870423
```

```
[28]: !pip install catboost
```

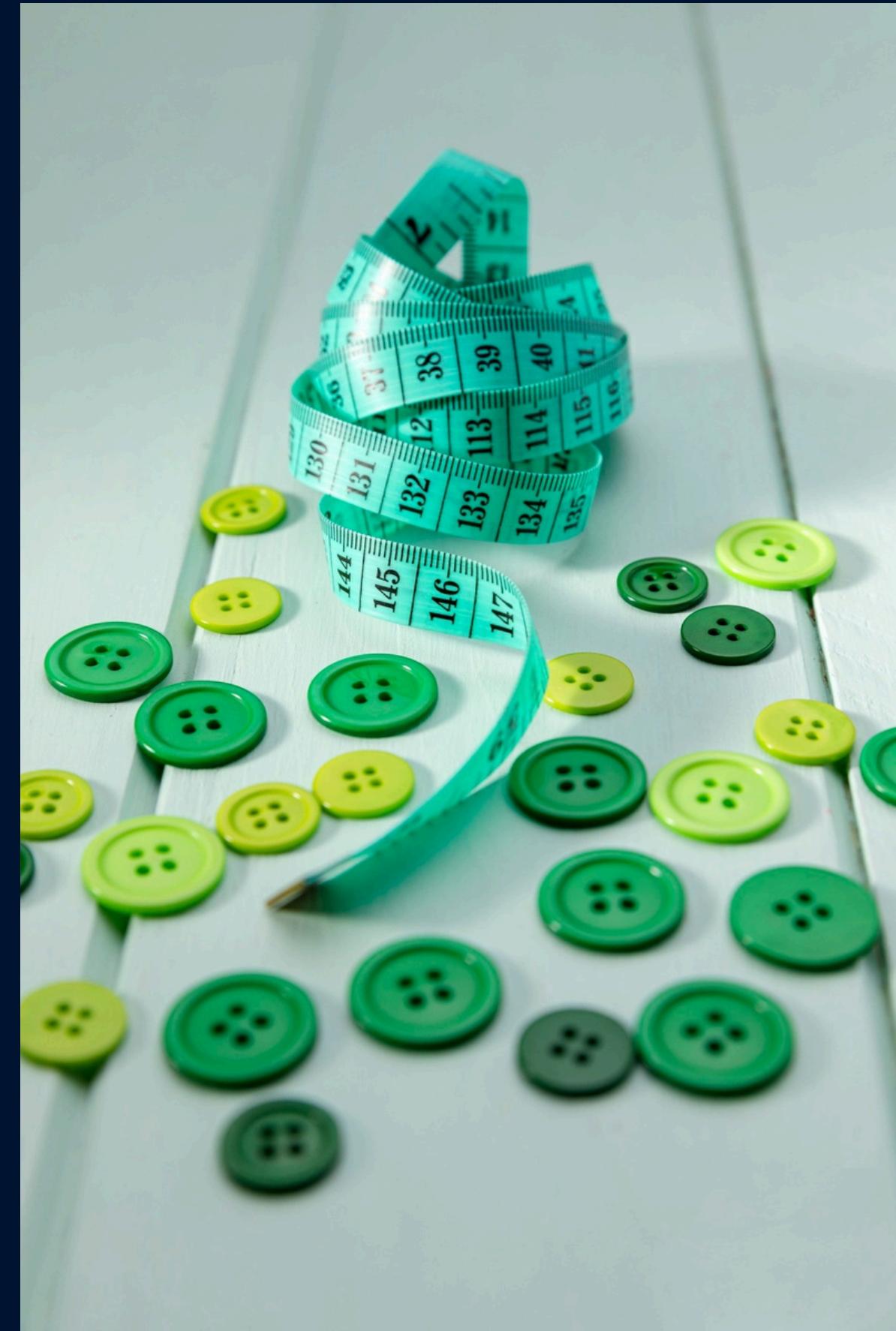
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Thank You So Much!

By:-

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