EMBEDDED VISION DESIGN 3

MORE TIPS&TRICKS

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WHAT IS WRONG HERE?

```python
from sklearn.metrics import mean_squared_error
from sklearn.linear_model import LinearRegression
from sklearn.preprocessing import StandardScaler
from sklearn.datasets import make_regression
from sklearn.model_selection import train_test_split

X, y = make_regression(n_features=1, noise=1)
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.4)

scaler = StandardScaler()
X_train_transformed = scaler.fit_transform(X_train)

model = LinearRegression().fit(X_train_transformed, y_train)
mean_squared_error(y_test, model.predict(X_test))
```

USE PIPELINES!

```
from sklearn.pipeline import make_pipeline

model = make_pipeline(StandardScaler(), LinearRegression())
model.fit(X_train, y_train)


mean_squared_error(y_test, model.predict(X_test))
```

More info:
10. Common pitfalls and recommended practices — scikit-learn 1.0 documentation

MODEL PERSISTENCE

- https://scikit-learn.org/stable/modules/model_persistence.html

- Simply use pickle an try it out

WORK ON YOUR EVD3 PROJECT