

# Introduction to Machine Learning Applications

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Agenda

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**Rensselaer**

# Today's agenda

- Announcements
  - Project report due tonight @ 11:59 PM
  - Exam 2 Tuesday 3/21 in class
  - Project report hints
- Lectures
  - Exam 2 review
- In-class exercise
  - Exam 2 review exercise

# Project report hints

- Benchmarking other solutions
  - Look at the Code tab for your competition
  - Select an entry with a Score:
    - This is the test performance.
  - Examine the notebook
    - Feature approach: which features did they use? Which transformations did they do?
    - Model approach: which model (linear regression, kNN, et al.) did they use?
    - Train performance: you will probably need to run the notebook to show a train score. You may also need to modify it.

## Simple LB 0.43594 (Lasso, Ridge, NN)

Notebook Input Output Logs Comments (12)



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In [7]:

```
from sklearn.linear_model import LinearRegression, Lasso, Ridge, ElasticNet
from sklearn import metrics
```

In [8]:

```
modelL = Lasso(alpha=1, fit_intercept = True, max_iter=7000).fit(X_train, y_train)
#print(model1.score(X_train, y_train))
y_predL = modelL.predict(X_val)
#print(model1.score(X_val, y_val))
```