



Rensselaer

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Lab exercises: kNN & k-Means, Model Training, Prediction and Evaluation

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Tetherless World Constellation
Rensselaer Polytechnic Institute



Lab 3

<https://rpi.box.com/s/j3vvua7y2mc5fuzulxca8q34tkomz3nk>



Exercise 1:

- Train and evaluate 2 kNN models using the abalone dataset
- Each model should use a different subset of features
- Compare models using contingency tables
- Find the optimal value k for the better performing model by training over a range of k values and choosing the value with the highest accuracy



Exercise 2:

- Train K-Means models for the abalone dataset using the best performing feature subset from the previous exercise
- Find the optimal value K and plot the assigned clusters for 2 of the features



Please push to your github repository:

1. All your code in a *.R or *.MD file



Thanks!
Have a great weekend!*

* Good luck with the job search!!!