

**Admin Notes / Agenda**

- Scavenger Hunt due now
- PSL 1 Feedback
- WPR I Office Hours TH 224 11 SEP 0730-0930 and 1400-1500
- PSL 2 due on Canvas 10 2359 September 2025

**1 KNN II Barracks KNN Review, with discussion on selecting  $K$  and voting / calculating the predictor's response variable****2 Go over steps of KNN algorithm****k-Nearest Neighbors Steps:**

1. Standardize all records, do not use the predictor record to calculate  $\bar{x}$  and  $s$
2. Find the Euclidean distance between the predictor record and each historical record
3. Select the  $k$ -nearest neighbors based on Euclidean distance
4. Make a classification prediction of a categorical outcome variable based on the majority of the  $k$ -nearest neighbors
5. Make a prediction of a numerical outcome variable based on the average value of the  $k$ -nearest neighbors

**3 Work Board Sheet****4 Work Board Sheet in Excel**