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01/11/2024

Problem Set 1

1. Conceptual question: propose one new regression problem (one that we have not discussed in class) that you can solve with machine learning, and describe how you would go about solving it. Please give a short answer (text) to the following;
   1. What features (x) would you use?
      1. Location of source
      2. Date of production
      3. Color
      4. Whether it is organic or not
      5. Whether it is cage free or not
      6. Grade
      7. Size
   2. What would the labels (y) be?
      1. Price
   3. How would you collect data?
      1. Compile price of a dozen non-expired chicken eggs from the past 30 years from various locations/brands in the US.
   4. Why might the problem turn out to be challenging?
      1. Price of chicken eggs may be affected by inflation and economy
2. Repeat question 1 for a classification problem.