Source:			
#ret			

0.1 | **prompt:**

For each of the scenarios below, answer the following questions. You do not have to explain your answer

- 1. What type of machine learning problem (regression, classification, clustering) do you think this is?
- 2. If this is a supervised problem, what will you use as your targets (aka labels) and how will you get
- 3. What processing do you need to do to your input data? (How will you handle non-numerical inputs? Do
- 4. What type(s) of model(s) would you try? Remember to start with the simplest thing that might work! To
- 5. What validation metric(s) would you use to decide how well you're doing?
- 6. What ethical challenges do the data collection, creation, and/or use of this model create? If you fe

Scenarios:

- 1. You are playing fantasy football and want to predict how many points each player will score next sea
- 2. You have customer reviews, each one of which has a rating from 1 (worst) to 10 (best) and some text.
- 3. You have data from a movie streaming service that consists of lists of movies that each user has wat
- 4. You want to predict whether a random stranger owns a cat, a dog, or neither, based on things that th
- 5. You want a model to predict the number of deer that will be born in a breeding season. You have a language number of fawns born the genus and species number of does sighted during the mating season vegetation quality during the mating season ("low", "average", or "high")

0.2 | Scenarios:

1. Football

- 1. Since we only have one season of point values, and hence cannot see cross season change in point values, the old season players will be used as training data.
- 2. Regression
- 3. Label: Point value
- 4. One Hot Encoding, 0-1 normalization
- 5. Linear Regression or Neural Networks
- 6. RMSE
- 7. None

2. Customer Reviews

- 1. Classification
- 2. Positive, Negative, Neutral
- 3. Tokenization,

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