1. What is the problem you want to solve? Why is it an interesting problem?

2. What data are you going to use to solve this problem? How will you acquire this data?

3. In brief, outline your approach to solving this problem. You might not know everything in

advance, and this approach may change later. This might include information like:

a. Is this a supervised or unsupervised problem?

b. If supervised, is it a classification or regression problem?

c. What are you trying to predict?

d. What will you use as predictors?

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e. Will you try a more “traditional” machine learning approach, a deep learning

approach, or both?

4. What will be your final deliverable? Will it be an application deployed as a web service

with an API or a more robust web/mobile app.

5. What computational resources would you need at a minimum to do this project? You

may not have a very clear sense now but work with your mentor to come to an estimate. In

real industrial applications, you’ll often be called upon to provide resource estimates at the

beginning of a project.

a. Processing power (CPU)

b. Memory

c. Specialized hardware such as GPUs