1. **Introduction/ Background/ Motivation [20 points]**This section will ideally deal with the following Heilmeier questions:
   * What are you trying to do? Articulate your objectives using absolutely no jargon.
   * Who cares? If you are successful, what difference will it make?

We want to create a way for a consumer to write better predictive text for feedback using recommendation system

1. **Reaction to existing papers/technologies [10 points]**This section will deal with the following:
   * How is it done today, and what are the limits of current practice?

This section is basically your literature review and should include the summary/critique/shortcomings of the papers (existing methods) you came across while researching your topic. Cite at least 3 works.

[Devanshee]

1. **Plan of Action [20 points]  
   [Vitaly Marin]**

**Proposed Approach:**

For this problem we are going to create the baseline and three methods to improve over that baseline. Specifically, below is the baseline for our problem, and the methods that we are going to use to improve on the problem.

| Baseline 1: Glove Method using Unigrams  Glove Method using Bigrams | Metric: Euclidean distance |
| --- | --- |
| Our Proposed method 1: find one more method to do a) unigram b) bigram completion. | Metric: Euclidean distance |
| Our Proposed method 2: find one more method to do a) unigram b) bigram completion. | Metric: Euclidean distance |
| Our Proposed method 3: find one more method to do a) unigram b) bigram completion. | Metric: Euclidean distance |

**Datasets**

Below is detailed information about this dataset that we are going to use for this problem

|  | Dataset #1 |
| --- | --- |
| Dataset Name | Yelp Food |
| Number of samples |  |
| Potential Attributes be used |  |
| Link to download | <https://www.yelp.com/dataset> |

**For the repositories we are going use the following:**

|  | Source code repository |
| --- | --- |
| Baseline code repository for Glove | <https://github.com/JonathanRaiman/glove>  <https://github.com/stanfordnlp/GloVe> |
| Our method #1 |  |
| Our method #2 |  |
| Our method #3 |  |

This section will deal with the following:

* + What is your proposed approach and why do you think it will be better than the existing work?
  + What are the risks and anticipated challenges that may be a roadblock for your project?
  + Which dataset will you use?
  + Which code repository will you start with, if any?