# **WYSA – AI Assignment**

## **Step 1**

Solve Problem A **OR** B. [Feel free to make assumptions if needed and mention them in your solution]

We want to evaluate your answer on approach and method(s) used, not just on model performance.  Feel free to use any type of ML approach, but if you do use a Deep Learning model, please also use a classic ML approach (non Neural Network) and report metrics and other details for this as well.

* **Problem A** -
  + Build a model to predict the value of the question in the TV game show “Jeopardy!”.
  + Data can be downloaded from this link: <https://www.kaggle.com/tunguz/200000-jeopardy-questions>
  + Data description
    - 'category' : the question category, e.g. "HISTORY"
    - ‘value' : $ value of the question as string, e.g. "$200" (*Note - "None" for Final Jeopardy! and Tiebreaker questions*)
    - 'question' : text of question (*Note: This sometimes contains hyperlinks and other things messy text such as when there's a picture or video question*)
    - 'answer' : text of answer
    - round' : one of "Jeopardy!","Double Jeopardy!","Final Jeopardy!" or "Tiebreaker" (*Note: Tiebreaker questions do happen but they're very rare (like once every 20 years)*)
    - 'show\_number' : string of show number, e.g '4680'
    - 'air\_date' : the show air date in format YYYY-MM-DD
* **Problem B**- Build a model to recommend a set of 3 books to read next using the ‘Goodreads Datasets’ <https://sites.google.com/eng.ucsd.edu/ucsdbookgraph/home>

**Brownie Points**- Use any pre trained model (example – BERT), optimize the memory usage and plan to deploy it on production server.

## **Step 2**

Have a chat with Wysa and find out 3 issues and mention how would you resolve those issues. Also, elaborate the approach or techniques you will use.