Capstone Group Information

1. **Capstone Project Title**

Plan A: What changes in lives under COVID pandemic?

Plan B: Topics related to presidential debates – sentiment analysis

Hello professor, we came up with two topics but not sure which topics is more accessible. We would appreciate it if you could provide us some suggestions.

2. **Questions:**

For Plan A:

   a. What are the price trends before COVID pandemic via zillow?
   b. What are the price trends during COVID pandemic via zillow?
   c. Predict the trends after pandemic? (optional)
   d. What are the apps most used by people?
   e. What songs people listen the most?
   f. What TV shows or movies people watch the most?
   g. What are the hotels, flights demand?

For Plan B:

   (i)   Were Donald Trump-related tweets positive, neutral, or negative during the debate? (Real-time?)
   (ii)   Were Joe Biden-related tweets positive, neutral, or negative during the debate? (Real-time?)
   (iii)   What were the hashtags most related to each candidate?
   (iv)   What were the most used hashtags in positive tweets?
   (v)   What were the most used hashtags in negative tweets?
   (vi)   Which hashtags have generated the most discussions among users?
   (vii)   What were the main users among the communities generated by the hashtags #biden, #trump, and #debate?

3. **Group Members, 4 in total.**

Lawrence Love;

Q1 - Which one of the followings apply to you: 1- I know Python very well
Q2- Which one of the followings apply to you: 1- I know data-frame manipulation and processing with Pandas very well
Q3- Which one of the followings apply to you: 1- I know null-hypothesis, z-test, t-test, Anova-test and their applications
Q4- Which one of the followings apply to you: 1- I know data visualization with matplotlib and seaborn in Python very wellQ3 – I completed a Graduate Certificate in Applied

Statistics in 2016, I could use some brushing up on my knowledge.
Q4 – I know these tools at a novice to intermediate level, not very well.

Also I'm reading a book on Deep Learning at the moment so hoping to gain so valuable knowledge there over the next month or so, using the Keras package

Gustavo Ferreira;

Q1 - Which one of the followings apply to you: 1- I know Python very well
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Q3- Which one of the followings apply to you: 1- I know null-hypothesis, z-test, t-test, Anova-test and their applications
Q4- Which one of the followings apply to you: 1- I know data visualization with matplotlib and seaborn in Python very well

Q3 - I know the concepts, but would need some review to use them
Q4 - Intermediate level.

Yan Li: Good at python programming, SQL, Tableau. Python package: Pandas, Sklearn, Matplotlib.

Frank Zhao;

Q1 - Which one of the followings apply to you: 1- I know Python very well
Q2- Which one of the followings apply to you: 1- I know data-frame manipulation and processing with Pandas very well
Q3- Which one of the followings apply to you: 1- I know null-hypothesis, z-test, t-test, Anova-test and their applications
Q4- Which one of the followings apply to you: 1- I know data visualization with matplotlib and seaborn in Python very well

I have used Python for almost 3 years, but I would say my skills would be 7/10. I have taken some statistics courses, but I still need to go over those concepts. I am interested in Deep Learning and have some practices by using Tensorflow2.0

4. Time-slots availability on Thursday

Thursday 2 pm – 3 pm

Thursday 3 pm – 4 pm