**CSCI Assignment 1**

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**Question 1:**

The value of Fleiss’ kappa inter-annotator agreement on the whole set is **0.650311.**

According to table 1, the inter-annotator agreement between the annotators can be interpreted as **substantial agreement.**

**Question 2:**

The value of Cohen’s kappa inter-annotator agreement between each **annotator 1** and the result of the majority vote is **0.89455.**

The value of Cohen’s kappa inter-annotator agreement between each **annotator 2** and the result of the majority vote is **0.78418.**

The value of Cohen’s kappa inter-annotator agreement between each **annotator 3** and the result of the majority vote is **0.79799.**

Ranking: **Annotator 1, Annotator 3, Annotator 2**

**Question 3:**

In this scenario where annotator 1 has higher familiarity with this task and therefore his vote is assigned twice the weight as annotator 2 and 3, the ties of votes can be observed when Annotator 2’s rating is same as Annotator 3’s rating but different from Annotator 1 ‘s rating. According to my understanding, in such a scenario we should give more priority to the rating given by Annotator 2/3 since its judged by two people as same but gets a tie due to more weightage given to rating of Annotator 1 who could be wrong (even after high familiarity). (2 responses compared to 1).

**Question 4:**

The cues I observed correlated to different type of opinions are:

1. **Positive:**
2. Smile on the face, confidence on face
3. Excitement in the tone
4. Looking directly towards the camera/screen
5. **Neutral:**
6. Gaze change either towards side or upward
7. Extra explanations
8. Calmness in tone
9. **Negative:**
10. Downward gaze
11. Pausing in between
12. Anger in tone
13. Seriousness in tone
14. Increase in pitch
15. Eyebrow movement

The cues which I want to focus on four experiments and question 5 include **tone + expression**, and **gaze.**

**Question 5:**

According to the cues observed:

1. **Tone + expression**

The rating for tone would have values:

1: Excitement, happy expression,

0: Calmness, neutral reaction

-1: anger, high pitch

The Pearson correlation coefficient for **0h-zjBukYpk \*** video clips is **0.616952.**

The Pearson correlation coefficient for **1DmNV9C1hbY \*** video clips is **0.766964.**

1. **Gaze**

The rating for tone would have values:

1: eyes to the screen

0: side/upward gaze

-1: Downward gaze

The Pearson correlation coefficient for **0h-zjBukYpk \*** video clips is **0.5903922.**

The Pearson correlation coefficient for **1DmNV9C1hbY \*** video clips is **0.710219.**