Mehak Piplani

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:**
   a) Smile on the face, confidence on face
   b) Excitement in the tone
   c) Looking directly towards the camera/screen

2) **Neutral:**
   a) Gaze change either towards side or upward
   b) Extra explanations
   c) Calmness in tone

3) **Negative:**
   a) Downward gaze
   b) Pausing in between
   c) Anger in tone
   d) Seriousness in tone
   e) Increase in pitch
   f) 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.

2) **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.