**QUIZ 1 Computer Vision Name: ID:**

**Q1.** The value of Likelihood ( can / cannot ) be negative.

**Q2.** In Continuous Events, the probability of a specific event ( is / is not ) always 0.

**Q3.** We will check the median value and distribution density of a data set. If we can only draw one plot, which plot should we draw? Violin plot

**Q4~Q8.** Please mark ‘O’ if the following sentence is correct, and mark ‘X’ if it is incorrect.

**Q4.** A disadvantage of systematic sampling is that bias may occur during the sample selection process. ( O )

**Q5**. If the value of Kurtosis is 1, the data is likely to be gathered within a narrower range than a normal distribution. ( X ) spread out widely.

**Q6**. Min-max scaling scales the average to be 0. ( X ) -> Z-score

**Q7.** The clip(a,b) function replaces the value of a with b. ( X ) -> cap values btw a and b

**Q8.** Linear interpolation is a method to estimate unknown values by connecting two known points with a straight line and using this line to predict intermediate values. ( O )

**Q9.** Assume that there are columns 'A, B, C, D, E, and F' in a data frame 'df'.

When executing the code below, if there are null values in ( C or D / both C and D ), the corresponding row is dropped.

|  |
| --- |
| df =df.dropna(how='all', subset=['C', 'D'] |

**Q10.** In continuous events, the area under a specific section of the probability density function (PDF) represents the ( probability / likelihood ) that a random variable falls within that section.