Lab 2 grading directions

1. Shows evidence (in the report or video) for the implementation of a client-server system that uses python for processing (server) and D3 for VIS (client) (5)
2. Shows evidence (in the report or video) for the implementation of stratified sampling using k-means clustering (5) with elbow-method optimization (5)
3. Demonstrates dimension reduction via PCA by showing a scree plot (any) of the PCA (5) and marking the intrinsic dimensionality using the elbow or other suitable method (5)
4. Shows the scree plots for the three cases: no sampling (5), random sampling (5), stratified sampling (5) and discusses the observations in the report or video (5)
5. Demonstrates visualization of PCA by showing a scatterplot (any) of the data projected into the top two PCA vectors (5)
6. Shows the PCA plots for the three cases: no sampling (5), random sampling (5), stratified sampling (5) and discusses the observations in the report or video (5)
7. Demonstrates visualization with MDS with Euclidian (5) and Correlation (5) distance and discusses the observations in the report or video (5)
8. Shows the MDS plots for the three cases for any of the two distance metrics: no sampling (5), random sampling (5), stratified sampling (5) and discusses the observations in the report or video (5)
9. Demonstrates the calculation of the three highest PCA loaded attributes by showing the corresponding 3x3 scatterplot matrix (5)
10. Shows the 3x3 scatterplot matrix for the three cases: no sampling (5), random sampling (5), stratified sampling (5) and discusses the observations in the report or video (5)
11. Bonus points for extra nice implementation (5)

135 points in total

Used the 5-point Likert scale: Excellent – Good – Fair – Poor – Very Poor