



Assignment No. 02
Autumn 2022
Data Science

Total Marks: 20

Due Date: 13-01-2023

Instructions

Please read the following instructions carefully before solving & submitting assignment:

It should be clear that your assignment will not get any credit if:

- The assignment is submitted after due date.
- The assignment is fully or partially copied from (other student or ditto copy from internet).
- Student ID is not mentioned in the assignment.

Objective

The objective of this assignment is

- To give basic knowledge and understanding of Feature Encoding Techniques, Feature Transformation, and Working with Outliers.

Deadline

Your assignment must be submitted on or before **13-01-2023**.

Question No 01:**(Marks: 20)**

Watch the following videos and write your findings about what you have learned about these topics.

Feature Encoding Techniques:

1. Ordinal Encoding and Label Encoding - <https://www.youtube.com/watch?v=w2GglmYHfmM>
2. One Hot Encoding - <https://www.youtube.com/watch?v=U5oCv3JKWKA>

Feature Transformation:

1. Log Transform - <https://www.youtube.com/watch?v=cTjj3LE8E90>
2. Box Cox Transform - https://www.youtube.com/watch?v=IV_Z4HbNAX0
3. Yeo Johnson Transform - https://www.youtube.com/watch?v=IV_Z4HbNAX0
4. Discretization - <https://www.youtube.com/watch?v=kKWsjGKcMvo>

Working with Outliers:

1. What are Outliers? - https://www.youtube.com/watch?v=Lln1PKgGr_M
2. Outlier detection and removal using Z-score method - <https://www.youtube.com/watch?v=OnPE-Z8jtqM>
3. Outlier detection and removal using IQR method - <https://www.youtube.com/watch?v=Ccv1-W5ilak>
4. Percentile method - <https://www.youtube.com/watch?v=bcXA4CqRXvM>

=====Ended=====

For any query about the assignment, contact at aamir.arsalan@fjwu.edu.pk

YOU DON'T HAVE TO BE GREAT TO START, BUT YOU HAVE TO START TO BE GREAT!