

Data Analytics Project Description – 2023

IS Department

Project Description:

- Use the methods and techniques studied in lecture and lab in order to apply the Data Analytics project cycle on your selected dataset you like.
- The total marks of the project will be evaluated according to:
 - (i) the project delivery and (ii) individual oral discussion.
- Project delivery date & discussion will be on the Practical exam date.

The project implementation will include the following:

1. Search for a real dataset with multiple attributes (a min of 10 relevant attributes and min 1000 rows)
2. Describe the dataset attributes
3. Understand the topic of the dataset and scientifically define your project objectives
4. Apply data cleaning or transformation methods (if needed)
5. Apply anomaly detection technique to find outliers (if needed)
6. Apply Data Exploration methods (i.e. Summary statistics and visualization methods)
7. Apply different data visualization charts, select the appropriate chart that allow you to observe more knowledge about your dataset (min 4 different types)
8. Mention your observations on your visualizations
9. The dataset preparation in terms of machine learning (training set, learning set)
10. Apply predictive analytic techniques (min 2 types)

Project Deliverables

1. Dataset (.CSV file)
2. Code files (Python file)
3. PPT presentation including short description of your data preprocessing, exploration, visualization, analytics, observations with screenshots for each.