

DataTrained Education Recruitment Task

General Instructions

Please read the instructions carefully.

- Use UCI Machine learning Repository for finding the dataset. If multiple datasets are found then you can use any one of the datasets.
- All the questions are compulsory. You will be evaluated on the basis of length of the code, plagiarism of code, and explanation of the code.
- Do share the .ipynb file for all the questions asked on web scraping, machine learning, statistics, and python. For the MySQL question please share the word page attached with the screenshot of the workbench or command-line client shell.

Python

Write two python codes that will return the factorial of a number using user defined function and lambda function.

MySQL

Write a MySQL query to convert Table T1 into Table T2.

T1		
CUST_ID	Metric	Value
A	Sales	10
A	Units	2
B	Sales	15
B	Units	5
C	Sales	14
C	Units	4
D	Sales	12
D	Units	7

T2		
CUST_ID	Sales	Units
A	10	2
B	15	5
C	14	4
D	12	7

Web Scraping

Scrap the product details (Name of Product, Ratings, Price, Product Description) using selenium. Use selenium to navigate the web page (Amazon or Flipkart).
Return a list of 100 products on the basis of price.

Statistics

Complete EDA on COVID dataset. Explanation of each graph required.

Machine learning

Model building with best data pre processing on PIMA INDIA DIABETES dataset.

!!! ALL THE BEST !!!