Project Development Phase - Sprint Delivery Plan Sprint 2 -Dataset Collection and Pre-Processing

Date	18 November 2022		
Team ID	PNT2022TMID52974		
	Statistical Machine Learning Approaches		
Project Name	to Liver Disease Prediction		

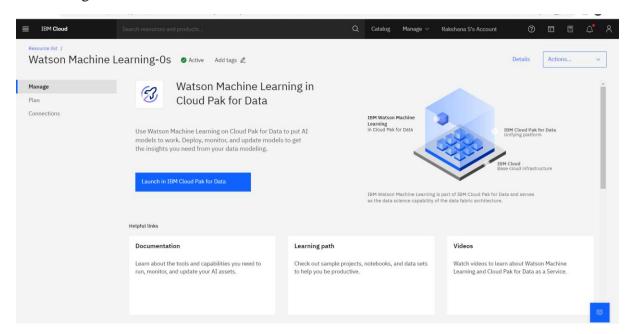
Downloaded Dataset:

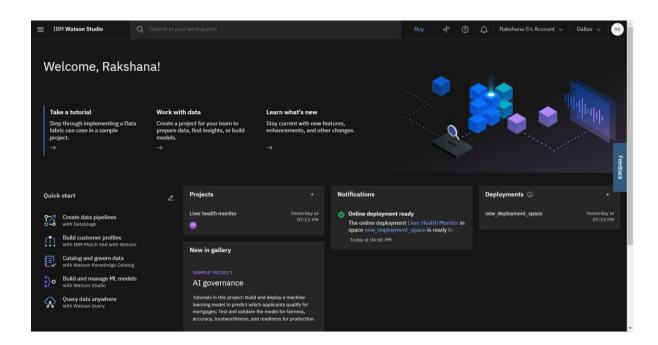
indian_liver_patient.csv (23.93 kB)

Detail Compact Column 10 of 1				
# Age == Age of the patients	▲ Gender =	# Total_Bilirubin = Total Billirubin in mg/dL	# Direct_Bilirubin = Conjugated Billirubin in mg/dL	# Alkaline_Phospho = ALP in IU/L
4 90	Male 76% Female 24%	0.4 75	0.1 19.7	63 2110
65	Female	0.7	0.1	187
62	Male	10.9	5.5	699
62	Male	7.3	4.1	490
58	Male	1	0.4	182
72	Male	3.9	2	195
46	Male	1.8	0.7	208
26	Female	0.9	0.2	154
# Alamine_Aminotr =	# Aspartate_Amino = AST in IU/L	# Total_Protiens == Total Proteins g/dL	# Albumin = Albumin in g/dL	# Albumin_and_Glo : A/G ratio
0 2000	10 4929	2.7 9.6	0.9 5.5	0.3
6	18	6.8	3.3	0.9
54	100	7.5	3.2	0.74
50	68	7	3.3	0.89
4	20	6.8	3.4	1
27	59	7.3	2.4	0.4
9	14	7.6	4.4	1.3

Dataset processing & Visualization:

• Login IBM Watson Studio to Visualize the data:

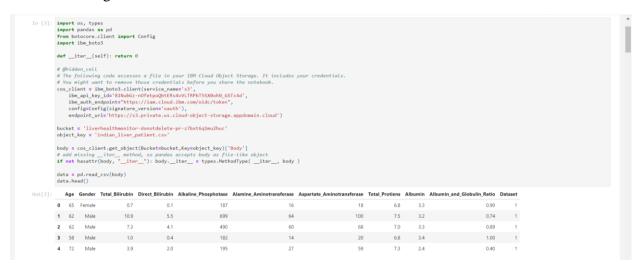




• Import Libraries:



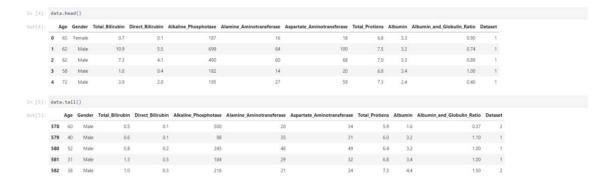
• Reading Dataset:



• Exploratory Data Analysis:

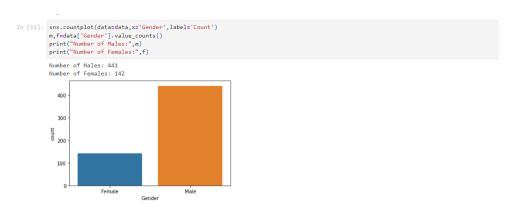
Head(): To check the first five rows of the dataset, we have a function called head().

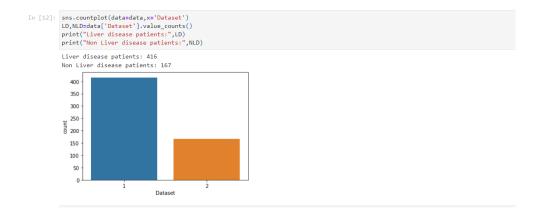
Tail(): To check the last five rows of the dataset, we have a function called tail().



• Checking for Null values and Handling Null values:

• Data Visualization:





- Splitting the dataset into dependent and independent variables
- Split the features into independent and dependent variables to train set and test set :

