HEART DISEASES PREDICTION USING LOGISTIC REGRESSION

Problem statement → an ai system that can determine if a person has heart diseases or not

We can make this model by using the following statement

- Phase 1 → import the essential libraries
- Phase 2 → load the data set
- Phase 3 → data cleaning and data preprocessing
- Phase 4 → train the data and then test the data
- Phase 5 → deploy the trained data in lr model
- Phase 6 → in final stage we will make the prediction

Phase 1:

→ this particular project we are going to make an artificial intelligence system by using logistic regression to predict that a has heart disease or not.

→ in the data set we have a feature named target if the target value is zero then the person has doesn't any heart problem and if the target value is one the person has a heart condition.

→ in phase one we are starting with importing the essential libraries that are going to use to create this model.

→ we will import pandas, numpy, sklearn model selection, sklearn metrics and sklearn linear model.

Phase 2 :

In phase 2 we load the data

Phase 3 :

We clean the data in which includes data reshaping data info. After that if any missing values are present in data set then we are going to remove it from the data set and then do the statistical analysis of the data set in which we are going to see standard deviation mean 25% 50% 75% max values and analyse it.

After that we will find the distribution of the target value from the data set which we cleaned after this process we get some target.

Phase 4 :

In the phase 4 we train the clean data set and split into train data and test data.

Phase 5 :

In phase 5 by using logistic regression we are going to fit the model and after the fitting the model we will evaluate the model by getting the accuracy score on both the data that is train data and test data.

Phase 6:

In phase 6 we will going to reshape the data again and do the prediction and give the result.