

Assignment-Classification Algorithm

Problem Statement or Requirement

A requirement from the Hospital, Management asked us to create a predictive model which will predict the Chronic Kidney Disease (CKD) based on the several parameters. The Client has provided the dataset of the same.

SI.NO	Question	Answer
1	Identify your problem statement	Stage1 : Machine Learning Stage2:Supervised Leaning Stage3: Classification
2	Tell basic info about the dataset (Total number of rows, columns)	399 Rows & 25 columns
3	Mention the pre-processing method if you're doing any (like converting string to number – nominal data)	It is Nominal Data
4	Develop a good model with good evaluation metric. You can use any machine learning algorithm; you can create many models. Finally, you have to come up with final model.	Good Model- Random Forest (attached in Git –Hub)
5	All the research values of each algorithm should be documented. (You can make tabulation or screenshot of the results.)	Yes, Documented in Word (Attached the good model in Git-Hub)
6	Mention your final model, justify why u have chosen the same.	Best Model – Classification Random Forest Criterion: Entropy Max Features: log2 Accuracy:0.98