**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.

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| **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** |