SHRI VISHNU ENGINEERING COLLEGE FOR WOMEN(AUTONOMOUS)::BHIMAVARAM
Department of Computer Science and Engineering
IV B.Tech II SEM - Project Status Report

Section – B **A.Y: 2020-2021**

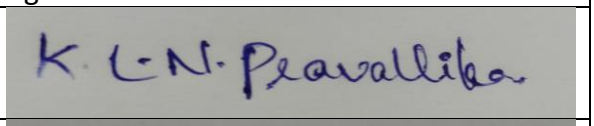
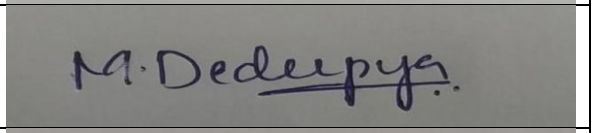
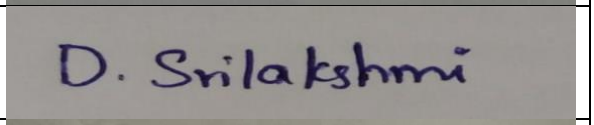
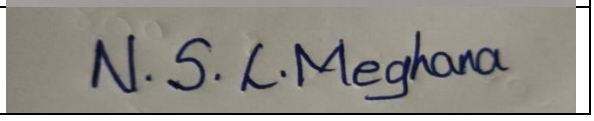
Project Batch No:	**7**
Project Title	Chronic Kidney Disease Prediction
Project Guide	Mr. K. Bhadrachalam
Project Aim (in 250 words)	The aim of the project is to detect CKD using machine learning algorithms by considering the least number of tests or features. We approach this by applying machine learning classifiers on a small dataset of 400 records. In order to reduce the number of features, the association between variables have been studied. Feature selection methods has been applied to the attributes and found that there are some of the attributes which impact mostly to predict the CKD.
Literature survey (list of books, online material studied)	Kaggle, Wikipedia(about features) https://www.kidney.org/atoz/content/about-chronic-kidney-disease https://www.kaggle.com/akshayksingh/kidney-disease-dataset https://archive.ics.uci.edu/ml/datasets/chronic_kidney_disease
Tasks / Modules completed so far(List the modules and percentage)	Data Cleaning Percentage completed : 35%
Upcoming task or milestones	Visualization Feature Selection Applying Models Result Analysis and User Interface
Uncompleted Modules expected date of completion	Visualization – 18-05-2021 Feature Selection – 23-05-2021 Applying Models – 26 – 05-2021 Result Analysis and User Interface – 10-06-2021
Name of Module 1	Visualization
Name of Module 2	Feature Selection
Name of Module 3	Applying Models
Name of Module 4	Result Analysis and User Interface
Role of each Project member	K.L.N. Pravallika – Python Programming(Data Cleaning, Feature Selection) and Designing User Interface

	M. Dedeepya - Python Programming(Feature Selection , Applying Algorithms to dataset) D. Srilakshmi - Python Programming(Visualization) and Designing User Interface. N.S.L. Meghana - Python Programming(Visualization)
Questions asked in previous Two reviews	**Review1** 1. Justify the title of your project? A. Our project is to predict whether a person is suffering from CKD or not. 2. What is the Existing System? A. The existing system of diagnosis is based on the examination of urine with the help of serum creatinine level. 3. Drawbacks of Existing System? A. Loss of money. Delay in time. Needs more human effort. **Review2** 1. Abstract of the project? A. We will consider kidney disease dataset, first we clean the dataset which means filling the null values. Later we apply feature selection techniques. We apply algorithms on the dataset which contain only selected features. This predicts whether a person is “ckd” or “not ckd” . 2. Techniques Filling missing values? A. You can use the attribute mean to fill in the missing value. Use the most probable value to fill in the missing value. You can fill in the missing value manually. 3. How can you predict a person ckd or not? A. We apply feature selection techniques. We apply algorithms on the dataset which contain only selected features. This predicts whether a person effected with

	kidney disease or not. 4. Objective of the project? A. To predict whether a person effected with kidney disease or not. 5. How you calculate accuracy, precision and recall? A. Accuracy= (TP + TN) / (TP+FP+FN+TN) Precision = TP / (TP+FP) Recall = TP / TP+FN 6. Type 1, 2 errors? A. Type I error is a false positive conclusion Type II error is a false negative conclusion.

Project Guide Signature:

Project Teams Members:

Name	Redg No	Signature
K. L. N. Pravallika	17B01A0567	
M. Dedeepya	17B01A0585	
D. SriLakshmi	17B01A0591	
N.S.L. Meghana	17B01A05A4	

Project Coordinator Signature

Head of the Department Signature