CSP 571

Project Plan and Detail

Team Members

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Task ID	Task Description	Responsibility	Start	Finish	Duration	Sep	Oct	Nov
			date	date		15 16-20 21-22 2		01-04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23-27 28 29 30
1	Data Collection		15-Sep	25-Sep		13 10 10 11 11		01 01 05 00 07 00 05 10 11 12 15 17 15 17 10 17
1.1		All	15-Sep	15-Sep	1			
1.2	Initial data review	All	15-Sep	22-Sep	8			
1.3	Select relevant datasets	All	22-Sep	25-Sep	4			
2	Data preparation/Cleaning		5-Oct	5-Nov	32			
2.1	Upload files to github and setup files for version control/collaboration	Santosh	5-Oct	16-Oct	12			
2.2	Search through datasets to find any missing values and address them appropriately	Jobin	16-Oct	5-Nov	21			
2.3	Factor categorical features and combine datasets	Jobin	5-Nov	5-Nov	1			
3	Methodology/ Data Modelling & Analysis		6-Nov	22-Nov	17			
3.1		Rupesh, Jobin	6-Nov	7-Nov	2			
3.2	Split the dataset into training and testing	Rupesh	7-Nov	7-Nov	1			
3.3	Create correlation matrix among all features	Santosh	7-Nov	9-Nov	3			
3.4	Fit a regression on the training set with all features and target variable 'rice yield'	Santosh	9-Nov	12-Nov	4			
3.5	Identify relevant features with p-value and correlation matrix	Santosh	12-Nov	12-Nov	1			
3.6	Perform a regression with only relevant features	All	12-Nov	14-Nov	3			
3.7	Compare models with MSE, RMSE, R-square with test data	All	14-Nov	18-Nov	5			
3.8	Optimization of the model	All	18-Nov	19-Nov	2			
	[3.8] No : Modification of the model, reset the relevant parameters		19-Nov	20-Nov	2			
	[3.8] Yes : Forecasting the rice yield using the model		20-Nov	22-Nov	3			
4	Conclusion and Report preparation		22-Nov	30-Nov				
4.1		All	22-Nov	22-Nov				
4.2	Preparation of the presentation	All	22-Nov	28-Nov	7			
4.3	Final report preparation	All	28-Nov	30-Nov	3			