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Date	Topic	Description	Time Spent	Challenges Faces	Solution
11/12/2024	Group discussion	discussed about topic and how we will work	2 hours	NIL	NIL
17/12/2024	Group discussion	decided problem statement which is weather and grains to perdict future prices	2 hours	NIL	NIL
18/12/2024	Finding Dataset	explored the dataset in aligement with problem statement	4 hours	did not find the dataset	NIL
19/12/2024	Finding Dataset	explored the dataset in aligement with problem statement	3 hours	raw the dataset to aligement with problem statement	discussed with
	Group discussion	Modified the problem statement which is prediction grains productions in fucture	2 hours	NIL	NIL
20/12/2024	Finding Dataset	found datasets grains production yearly for every regions	2 hours	NIL	NIL
21/12/2024	Finding Dataset	explored mean annual weather datasets for Myanmar	5 hours	require to take many time to download the data recod enough because of data access limitation on website	found the NASA website which provide annual weather data
22/12/2024	Collecting weather dataset	downloaded mean annual weather datasets (1981–2022) from NASA website	30 minutes	NIL	NIL
23/12/2024	Modifying dataframe	implemented python codes to modifed weather dataframe which requires to meet with project requirements	3 hours	NIL	NIL
24/12/2024	Collecting crop dataset	downloaded crops datasets (1961–2022) from our world in data website and combined sepreated csv files using pandas	2 hours	NIL	NIL
25/12/2024	Creating mongo DB	implemented the code to connect with mongo DB and uploaded raw datasets before perprocessing	2 hours	NIL	NIL
27/12/2024	Creating final dataset	combined three types of datasets such as weather data, yields data and used of land data	1 hours	NIL	NIL
28/12/2024	data Preprocessing	checked and handle missing values and duplicated values	2 hours	NIL	NIL
29/12/2024	Feature Egineering	adding new cooleration features to the perdiction features and scaling technique	3 hours	NIL	NIL
30/12/2024	uploading final dataset	Uploaded final dataset on Mongo DB after perprocessing	1 hours	NIL	NIL
31/12/2024	data Visualization	visualization the data distribution, outlier, relationship between features and correlation	3 hours	require to understand multiple feature relationship and correlation.	Used barplot and heatmap visualization methods
	Perparing dataset	Perparing dataset	3 hours	There is object values in the dataset. the algorithm might not access these values.	Used label endcoding method
2/1/2025	moving new house				İ

3/1/2025		implemented machine learning models and evaluation including linear regression, Random forest model, SVR and decission tree		linesr regression model	tried with one more non linear regression algorithm which is Gradient Boosting Regression
4/1/2025	Start report	write indroduction, related works of Gradient Boosting Regression, and about datasets	3 hours		
5/1/2025	Final group meeting, create video and uploaded on git hub	uploaded the files on git hub, and created readme file	1 hours		
		discussed about the document format and video recoding	1 hours		
		Recoded persentation video	1 hours		