CSP 571: DATA PREPARATION AND ANALYSIS PROJECT PLAN AND DETAIL

Members:

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	Task Name	Duration	Start	Finish	Resource Names	WBS
1	Project	67 days	Tue 1/31/23	Sun 4/30/23		1
2	Project Topic	9 days	Tue 1/31/23	Fri 2/10/23		1.1
3	Project Team Formation and Topic Decision	3 days	Tue 1/31/23	Thu 2/2/23	Anushka Chaubal, Pranit Kotkar, Rewa Deshpande, Siddhi Shukla, Vaishnavi Devadig	1.1.1
4	Project proposal and outline	6 days	Fri 2/3/23	Fri 2/10/23	Anushka Chaubal, Pranit Kotkar, Rewa Deshpande, Siddhi Shukla, Vaishnavi Devadig	1.1.2
5	Plan of Action	9 days	Tue 2/28/23	Fri 3/10/23		1.2
6	Project Planning Detail	3 days	Tue 2/28/23	Thu 3/2/23	Anushka Chaubal, Pranit Kotkar, Rewa Deshpande, Siddhi Shukla, Vaishnavi Devadig	1.2.1
7	Documentation	4 days	Fri 3/3/23	Wed 3/8/23	Anushka Chaubal, Pranit Kotkar, Rewa Deshpande, Siddhi Shukla, Vaishnavi Devadig	1.2.2
8	Gantt Chart and WBS	2 days	Thu 3/9/23	Fri 3/10/23	Anushka Chaubal, Pranit Kotkar, Rewa Deshpande, Siddhi Shukla, Vaishnavi Devadig	1.2.3
9	Data Preparation	4 days	Sat 3/11/23	Wed 3/15/23		1.3
10	Data Collection	2 days	Sat 3/11/23	Sun 3/12/23	Anushka Chaubal, Vaishnavi Devadig	1.3.1
11	Analyzing Data Metrics	2 days	Mon 3/13/23	Tue 3/14/23	Pranit Kotkar, Siddhi Shukla	1.3.2
12	Data Processing	4 days	Wed 3/15/23	Mon 3/20/23		1.4
3	Data Cleaning	2 days	Wed 3/15/23	Thu 3/16/23	Anushka Chaubal,Rewa Deshpande	1.4.1
14	Handling Outliers	2 days	Thu 3/16/23	Fri 3/17/23	Vaishnavi Devadig	1.4.2
15	Data Standardization	2 days	Sat 3/18/23	Sun 3/19/23	Pranit Kotkar, Siddhi Shukla	1.4.3
16	Merge Multiple Datasets	2 days	Sun 3/19/23	Mon 3/20/23	Rewa Deshpande, Vaishnavi Devadig	1.4.4
17	Exploratory Data Analysis	11 days	Mon 3/20/23	Fri 3/31/23		1.5
8	Analyzing footfall of transit routes	2 days	Mon 3/20/23	Tue 3/21/23	Pranit Kotkar	1.5.1
9	Analyzing trips between weekdays and weekends	2 days	Wed 3/22/23	Thu 3/23/23	Rewa Deshpande	1.5.2
20	Analyzing impact of holidays on CTA trips	2 days	Fri 3/24/23	Sat 3/25/23	Vaishnavi Devadig	1.5.3
21	Analyzing impact of weather on CTA trips	2 days	Sun 3/26/23	Mon 3/27/23	Siddhi Shukla	1.5.4
22	Analyzing impact of Covid-19 on passenger statistics	2 days	Mon 3/27/23	Tue 3/28/23	Rewa Deshpande, Siddhi Shukla	1.5.5
23	Analyzing CTA crime statistics	2 days	Tue 3/28/23	Wed 3/29/23	Anushka Chaubal	1.5.6
24	Analyzing gender-specific data	2 days	Wed 3/29/23	Thu 3/30/23	Pranit Kotkar	1.5.7
25	Analyzing location-density diagrams for busiest station	2 days	Thu 3/30/23	Fri 3/31/23	Siddhi Shukla, Vaishnavi Devadig	1.5.8
26	Data Modelling	15 days	Sat 4/1/23	Thu 4/20/23		1.6
27	Performing Lasso Regression for feature selection	3 days	Sat 4/1/23	Tue 4/4/23	Pranit Kotkar, Siddhi Shukla	1.6.1
28	Performing T-test/F-test	1 day	Wed 4/5/23	Wed 4/5/23	Anushka Chaubal,Siddhi Shukla	1.6.2
29	Modelling a piecewise polynomial regression	3 days	Thu 4/6/23	Sun 4/9/23	Rewa Deshpande, Vaishnavi Devadig	1.6.3
30	Creating model using SVM/Random Forest	3 days	Mon 4/10/23	Wed 4/12/23	Anushka Chaubal, Pranit Kotkar	1.6.4
31	Creating GAM for Inference/Prediction	4 days	Wed 4/12/23	Sat 4/15/23	Anushka Chaubal, Siddhi Shukla, Vaishnavi Devadig	1.6.5
32	Data Visualization	2 days	Sun 4/16/23	Mon 4/17/23		1.7
33	Plot explored plots with generated model	2 days	Sun 4/16/23	Mon 4/17/23	Vaishnavi Devadig,Rewa Deshpande	1.7.1
34	Model Evaluation	8 days	Tue 4/18/23	Thu 4/27/23		1.8
35	Measuring Variance using MSE,RMSE and R2 metrics	3 days	Tue 4/18/23	Thu 4/20/23	Anushka Chaubal,Siddhi Shukla	1.8.1
6	Checking prediction accuracy	2 days	Fri 4/21/23	Sat 4/22/23	Vaishnavi Devadig,Rewa Deshpande	1.8.2
37	Using Anova to compare piecewise and SVM model	4 days	Sun 4/23/23	Wed 4/26/23	Siddhi Shukla, Anushka Chaubal	1.8.3
88	RSE,VIF, F-stat and P-Value for selecting the model	2 days	Wed 4/26/23	Thu 4/27/23	Pranit Kotkar,Rewa Deshpande	1.8.4
39	Report Documentation and Presentation	2 days	Fri 4/28/23	Sun 4/30/23		1.9
40	Final report Generation	1 day	Fri 4/28/23	Fri 4/28/23	Anushka Chaubal, Pranit Kotkar, Rewa Deshpande, Siddhi Shukla, Vaishnavi Devadig	1.9.1
41	Final Presentation	2 days	Sat 4/29/23	Sun 4/30/23	Anushka Chaubal, Pranit Kotkar, Rewa Deshpande, Siddhi Shukla, Vaishnavi Devadig	1.9.2