

Project Planning Phase Milestone & Activity list

Date	31 October 2022
Team ID	PNT2022TMID08065
Project Name	Crude Oil Price Prediction

Milestone List

Milestone name	Milestone number	Description	Mandatory
Project Objectives	M-01	We will be able to learn to prepare dataset, data pre-processing, working with RNN layers, read data using various libraries and algorithms such as RNN and LSTM for prediction of crude oil prices.	Yes
Project Flow	M-02	A project management process flowchart is a graphical aid, designed to visualise the sequence of steps to be followed throughout the project management process	Yes
Prerequisite	M-03	To complete this project, we should have known the following projects such as Keras, TensorFlow, RNN and LSTM etc.	Yes
Prior Knowledge	M-04	One should have knowledge on the Supervised Learning, RNN, Regression, Classification and Clustering techniques, NLP etc.	Yes
Data collection	M-05	We can collect dataset from different open sources like kaggle.com Deep learning etc.	Yes
Project Structure	M-06	Importing the data pre-processing libraries, Define the Variables for reading the data and classes for storing it . Importing the libraries to train and test the data.	Yes
Model building	M-07	Importing the model building libraries, Initialising the model, Adding RNN layers, Adding Dense layers, Configuring the learning Process, Train the model, Save the model, Predictions.	Yes
Application building	M-08	Create an HTML file ,build the python code,run the application in browser and showcase prediction on UI	Yes
Train RNN model in IBM	M-09	Register for IBM Cloud and train data Classification Model	Yes
Ideation phase	M-10	Prepare Literature Survey on the selected Project and Information Gathering, empathy map and ideation	Yes

Project design phase-I	M-11	Prepare Proposed solution, problem-solution fit and Solution Architecture	Yes
Project Design Phase-II	M-12	Prepare Customer journey functional requirements, Dataflow diagram and Technology Architecture	Yes
Project Planning Phase	M-13	Prepare Milestone list, Activity list and Sprint Delivery Plan	Yes
Project Development Phase	M-14	Project Development delivery of Sprint 1, Sprint 2, Sprint 3, Sprint 4	Yes

Activity List

Activity number	Activity	Sub activity	Assigned member	Status
1.	Project Objectives		Subhiksha	Completed
2.	Project Flow		Sneha	Completed
3.	Prerequisite		Sowjanya	Completed
4.	Prior Knowledge		Suruthi	Completed
5.	Project Structure		Supriya	
5.	Data collection	5.1 Download the Dataset	Subhiksha	Completed
6.	Data pre- processing	6.1. Import the Libraries	Sneha	In-progress
		6.2. Importing the dataset	Sowjanya	In-progress
		6.3. Handling missing data	Suruthi	In-progress
		6.4. Feature scaling	Supriya	
		6.5.Data Visualization	Subhiksha	
		6.6. Splitting Data into Train and Test	Sneha	
		6.7. Creating a dataset with sliding windows.	Sowjanya	
7.	Model Building	7.1. Importing the model building libraries.	Suruthi	In-progress
		7.2. Initialising the model.	Supriya	In-progress

		7.3. Adding LSTM layers.	Subhiksha	In-progress
		7.4. Adding output layers.	Sneha	In-progress
		7.5. Configuring the learning process.	Sowjanya	In-progress
		7.6. Train the model.	Suruthi	In-progress
		7.7. Model Evaluation	Supriya	In-progress
		7.8. Save the model	Sneha	In-progress
		7.9. Test the model	Subhiksha	
8.	Application building	8.1. Create an HTML file	Sowjanya	In-progress
		8.2. Build python code	Supriya	In-progress
		8.3. Run the app in local browser	Suruthi	In-progress
		8.4. Showcasing prediction on UI	Sneha	
9.	Train the Model on IBM	9.1. Register for IBM cloud	Subhiksha	In-progress
		9.2. Train the ML model on IBM	Sneha, Sowjanya	Completed
		9.3. Integrate flask with scoring end point.	Sneha	
10.	Ideation phase	10.1. Literature Review.	Suruthi	Completed
		10.2. Empathy map.	Supriya	Completed
		10.3. Ideation.	Subhiksha	Completed
11.	Project design phase-I	11.1 Proposed Solution	Subhiksha, Sneha, Suruthi	Completed
		11.2 Problem solution fit.	Subhiksha, Sowjanya	Completed
		11.3 Solution Architecture.	Suruthi, Supriya	Completed
12.	Project Design Phase-II	12.1 Customer journey.	Subhiksha, Sneha	Completed
		12.2. Functional requirement.	Sowjanya, Suruthi	Completed

		12.3. Data flow Diagram.	Supriya	Completed
		12.4. Technology Architecture.	Subhiksha, Sowjanya,Supriya	Completed
13.	Project Planning Phase	13.1. Prepare milestone and activity list.	Subhiksha,Suruthi	Completed
		13.2. Sprint delivery plan	Subhiksha,Suruthi	Completed
14.	Project Development Phase	14.1. Project development-Delivery of Sprint-1.	All	In-progress
		14.2. Project development-Delivery of Sprint-2.	All	In-progress
		14.3. Project development-Delivery of Sprint 3.	All	In-progress
		14.4. Project development-Delivery of Sprint-4.	All	In-progress