

MILESTONE AND ACTIVITY LIST

DATE	27 October 2022
TEAM ID	PNT2022TMID12637
PROJECT NAME	Crude Oil Price Prediction
MAXIMUM MARKS	4 Marks

MILESTONE

Data collection	M-01	Download the dataset Crude Oil Prices Daily.
Data preprocessing	M-02	The downloaded data is preprocessed before training the model.
Model building	M-03	Build the model using RNN (Recurrent Neural Network) with LSTM(Long Short Term Memory).
Application building	M-04	Create a python-flask application to run the app in the local browser and showcase the prediction on UI.
Train the model on IBM	M-05	The model is trained in the IBM cloud.
Ideation phase	M-06	Perform the literature survey, ideation, and prepare the empathy map.
Project Design Phase - I	M-07	Prepare the proposed solution, the problem-solution fit, and the Solution Architecture.
Project Design Phase - II	M-08	Create a customer journey, functional requirements, a data flow diagram, and a technology architecture
Project Planning Phase	M-09	Make a list of milestones, an activity list, and a sprint delivery plan.
Project Development Phase	M-10	Develop and submit Sprint 1, Sprint 2, Sprint 3, and Sprint 4

ACTIVITY LIST

Activity Number	Activity	Sub Activity	Assigned To	Status
1.	Data Collection	<ul style="list-style-type: none"> Download dataset/create dataset 	All Members	Completed
2.	Data preprocessing	<ul style="list-style-type: none"> Import the libraries Import the dataset Handling missing data Feature scaling Data visualization Splitting data into train and test Creating a dataset with sliding windows 	All Members	In Progress
3.	Model Building	<ul style="list-style-type: none"> Importing the Model Building Libraries Initialize the model Adding LSTM layers Adding GRU layers Adding output layers Configure the learning process Train the model Model evaluation Save the model Test the model 	All Members	In Progress
4.	Application Building	<ul style="list-style-type: none"> Create an HTML file Build Python code Run the app in the local browser Showcasing prediction on UI 	All Members	In Progress
5.	Train the model on IBM	<ul style="list-style-type: none"> Register for IBM cloud Train the ML model on IBM Integrate flask with scoring endpoint 	All members	In Progress
6.	Ideation Phase	<ul style="list-style-type: none"> Literature Survey On The Selected Project & Information Gathering Prepare Empathy Map Ideation 	All Members	Completed

7.	Project Design Phase – I	<ul style="list-style-type: none"> • Proposed Solution • Problem Solution Fit • Solution Architecture 	All Members	Completed
8.	Project Design Phase – II	<ul style="list-style-type: none"> • Customer Journey • Functional Requirement • Data Flow Diagrams • Technology Architecture 	All Members	Completed
8.	Project Planning Phase	<ul style="list-style-type: none"> • Prepare Milestone & Activity List • Sprint Delivery Plan 	All Members	Completed
9.	Project Development Phase	<ul style="list-style-type: none"> • Delivery Of Sprint-1 • Delivery Of Sprint-2 • Delivery Of Sprint-3 • Delivery Of Sprint-4 	All Members	In Progress