

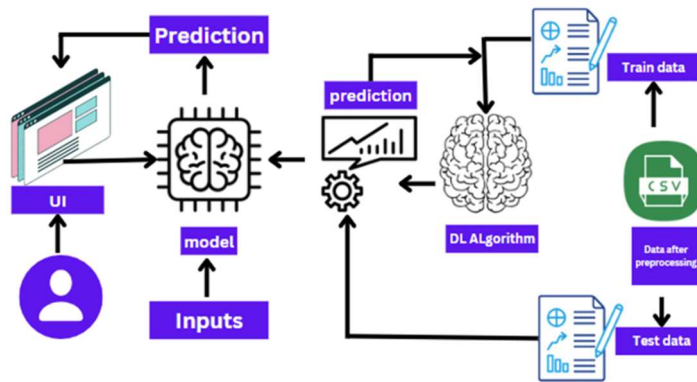
Project Design Phase-II Data Flow Diagram & User Stories

Date	03 October 2022
Team ID	PNT2022TMID10046
Project Name	Project – Crude Oil Price Prediction
Maximum Marks	4 Marks

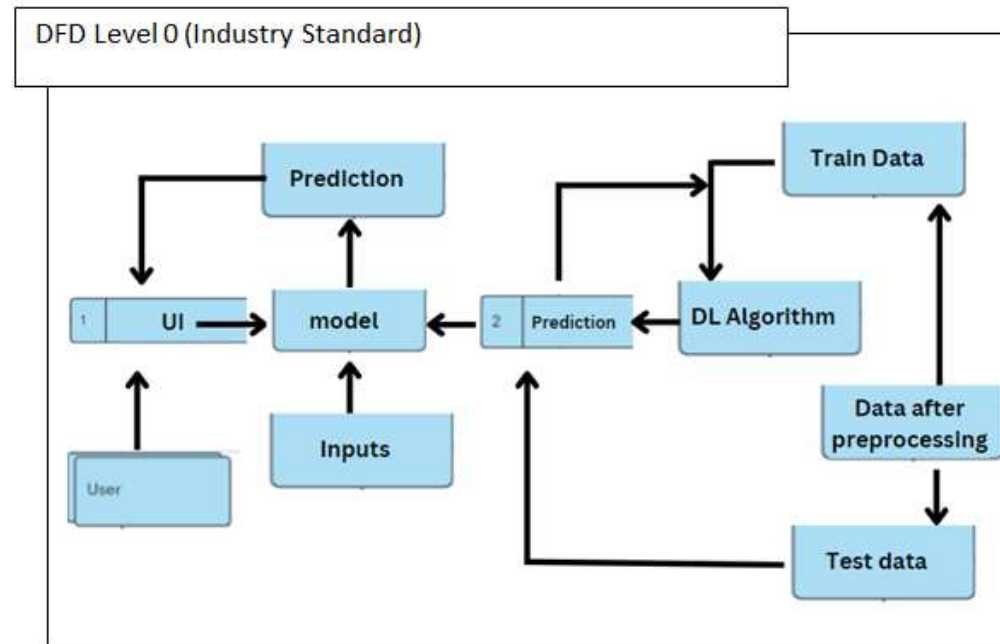
Data Flow Diagrams: A Data Flow Diagram (DFD) for crude oil price prediction gives a traditional visual representation of the information flows within a system. The DFD depicts the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

A Data Flow Diagram (DFD) for the project Crude Oil Price prediction is depicted below.

DFD:



1. User goes to the web page and clicks on the button to predict, then the prediction webpage opens up.
2. Then the user gives the first 10 days Crude oil prices values and then clicks on the predict button.
3. Then the predicted price will be displayed in the webpage.



User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Developer	Developing Tools	USN-1	Collecting Data	I can Collecting the data	High	Sprint-1
		USN-2	As a developer, I develop the RNN and LSTM model for predicting the crude oil prices	I develop the RNN and LSTM model	High	Sprint-1
		USN-3	As a developer, I test out the model that has been trained	I test out the model	High	Sprint-1
		USN-4	As a developer, I develop the HTML, CSS code for project UI	I develop the HTML, CSS code for project UI	Low	Sprint-2
		USN-5	As a developer, I develop flask model which runs in a local server to showcase the project	I develop flask model	High	Sprint-2
		USN-6	As a developer, I build the model in IBM Cloud	I build the model in IBM Cloud	High	Sprint-2
		USN-7	As a developer, I integrate the developed system with the IBM Cloud	I integrate the developed system with the IBM Cloud	High	Sprint-2
Customer/User Oil Trader, Importer and Producer (Web user)	Dashboard	USN-8	As a user, I can get into dashboard in which it shows button for predicting future crude oil prices.	I can access my dashboard	High	Sprint-3
		USN-9	As a user, If I click the prediction button, crude oil price prediction page will open.	The Price prediction page opens up	High	Sprint-3
		USN-10	As a user, I can enter the First 10 days Crude oil prices and then click on predict button and then the predicted price will be displayed.	The predicted price will be displayed in the webpage.	High	Sprint-4
Administrator	Application	USN-11	As an Administrator, I can change the deployment settings and can improve the ease of access of the web page and can solve any issues in the web page.	Can change the settings, ease of accessing improvements and solve any issues.	High	Sprint-4