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Crude Oil Price Prediction

Project Objectives

Project Flow

Pre-Requisites

- In Order To Develop This Project, We Need To Install Following Software's/Packages
- To Build Machine Learning Models You Must Require The Following Packages

Prior Knowledge

Project Structure

Dataset Collection

- Collect the Dataset or Create the Dataset.

Data Pre-Processing:

- Import the Libraries.
- Handle missing data
- Feature Scaling
- Data Visualization
- Splitting Data Into Train And Test
- Creating A Dataset With Sliding Windows

Model Building:

- Importing The Model Building Libraries
- Initializing The Model
- Adding LSTM Layers
- Configure The Learning Process
- Train The Model
- Model Evaluation
- Save The Model
- Test The Model

Application Building:

- Create an HTML File
- Build Python Code.

- Run the App In Local Browser
- Showing Prediction On UI

Train the Model on IBM:

- Register for IBM Cloud.
- Train the IBM Model on IBM.
- Integrate flask with Scoring endpoint.

Ideation Phase:

- Literature Survey On The Selected Project & Information Gathering.
- Prepare Empathy Map
- Ideation

Project Design Phase-I:

- Proposed Solution
- Problem Solution Fit
- Solution Architecture

Project Design Phase-II:

- Customer Journey.
- Functional Requirement
- Data Flow Diagrams
- Technology Architecture

Project Planning Phase:

- Prepare Milestone and Activity List.
- Sprint Delivery Plan

Project Development Phase:

- Project Development- Delivery of Sprint-1
- Project Development- Delivery of Sprint-2
- Project Development- Delivery of Sprint-3
- Project Development- Delivery of Sprint-4