Project Planning Phase

Milestone and Activity list

Date	02-November-2022
Team ID	PNT2022TMID17645
Project Name	DemandEst - AI powered Food Demand
	Forecaster
Maximum Marks	8 Marks

Completed Tasks:

MILESTONES	ACTIVITY	DESCRIPTION
Ideation phase	Literature survey	Literature survey on selected project and gathering information.
	Empathy map	Prepare empathy map to capture the user pains and gains, prepare a list of problem statement.
	Ideation	Organising the brainstorming session and prioritise the top three ideas based on feasibility hand importance.
Project design phase 1	Proposed solution	Prepare proposed solution document which includes novelty, feasibility of ideas, business model, social impact, scalability of solution.

Problem solution fit	Prepare problem solution fit Documents.
Solution architecture	Prepare solution architecture document.

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	Customer journey map	Prepare customer
		journey map to
Project design phase 2		understand the user
		interactions and
		experience with the
		application.
	Functional requirements	Prepare functional and non-
		functional necessity
		document.
	Data flow diagram	Prepare data flow
		diagram and user
		stories
	Technology architecture	Draw technology architecture
		diagram
Project planning phase	Milestones and activity	Prepare milestones and activity
	list	list of the project.
	Sprint delivery plan	Planning of sprints
	In Order To Develop This	Anaconda Navigator
Pre-Requisites	Project,We Need To	
	Install Following	
	Software's/Package	
	To Build Machine	Numpy
	Learning Models You	Pandas
	Must Require The	Sicikit-learn
	Following Packages	Matplotlib and Seaborn
		Flask
	Collect The Dataset or	train.csv
Dataset Collection	Create The Flask	test.csv
		fulfilment_center_info.csv
		meal_info.csv
Data Pre-Procesing	Importing The Libraries	Pandas

		NumPy
	Reading The Dataset	Read_csv()
	Exploratory Data	train.head()
	Analysis	test.head()
	Checking For Null Values	train.ismull().sum()
	Reading And Merging.csv	meal_id
	Files	center_id
	Droping Columns	center_id
		meal_id
		trainfinal
	Label Encoding	scikit_learn trainfinal.head()
	Data Visualization	Data visualization is where a
		given data set is presented in a graphical format
	Splitting The Dataset into	homepage_featured
	Dependent And	emailer_for_promotion
	Independent Variable	op_area
		cuisine
		· -
	-	
	Train Set And Test Set	
		_
		_
Model Building		
viouei Building	Train And Tost Model	
	Application	, -
		_
	Model Evaluation	
Model Building	Split The Dataset Into Train Set And Test Set Train And Test Model Application Model Evaluation	region_code train_test_split Train Dataset Test Dataset test_size train_size train_test_split There are several Machine learning algorithm to be used depending on the data you algoing to process such as images, sound, text and numerical values. We're going to use x_train ary_train obtained above in

		train_test_split section to train our regression model.
	Save The Model	After building the model we have to save the model.
	Predicting The Output Using The Model	Here, we are creating X_test which are using to test the model to predict the number of orders by giving input to the model build.
Application Building	Create An HTML File	We use HTML to create the font-end part of the web page.
	Build Python Code	Let us build flask file 'apply.py' which is a web framework written in python for server - side scripting.
	Run The App	Run the application from anaconda prompt.
Train The Model On IBM	Register For IBM Cloud	Create IBM Account
	Train The ML Model On IBM	Watch The Video To Train The Machine Learning Model On IBM Watson.
	Integrate Flask With Scoring End Point	Watch The Video To Integrate The Scooring Endpoint To The Flask

Remaining Tasks:

MILESTONES	ACTIVITY	DESCRIPTION
Project Development Phase	Project Development Delivery Of Sprint-1	In this activity are expected to develop & submit the developed code by testing it.
	Project Development Delivery Of Sprint-2	In this activity are expected to develop & submit the developed code by testing it.
	Project Development Delivery Of Sprint-3	In this activity are expected to develop & submit the developed code by testing it.
	Project Development Delivery Of Sprint-4	In this activity are expected to develop & submit the developed code by testing it.