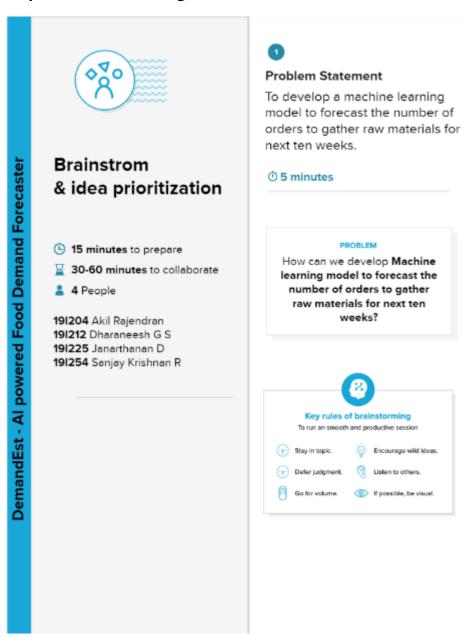
Ideation Phase Brainstorm & Idea Prioritization Template

Date	13 September 2022
Team ID	PNT2022TMID13001
Project Name	Project - DemandEst - AI powered Food
	Demand Forecaster
Maximum Marks	4 Marks

The original PDF of the below Brainstorming is submitted as a single file for better clarity

Step-1: Team Gathering, Collaboration and Select the Problem Statement



Step-2: Brainstorm, Idea Listing and Grouping



Brainstorm

Write down all innovative ideas as it comes addressing the problem statement.

(1) 10 minutes

Akil R M

understanding for the nuances of the given data, it is nearly impossible to build an effective,

Exponential

Dharaneesh G S

available and the steps towards deciding on an

data and the relationship present within it is just as important as any algorithm used to train the machine

It's important to

think critically

about what a

given problem

Janarthanan D

Keeping track of the machine learning them at any point

Understand the dataset for the features that greatly contribute to the end estimation.

neasure the model The model is

Understanding and

knowing the evaluation metric is

monitored for model drift so that it stays accurate and effective.

Sanjay Krishnan R

to make the model-building process as welldefined as possible.

Focus on optimising the configuration to bring the most benefit.

Model-building phase is to reassess the goals first step to are feasible.

Data augmentation

techniques can be leveraged to expand the training

dataset in a scalable fashion



Group Ideas

Take turns sharing your ideas while clustering similar or related notes as you go. In the last 10 minutes, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you and break it up into smaller sub-groups.

reduction of the

feature space to achieving better

performances by

The data must be

techniques like box/scatter plots in

order to identify

Demand

analyzes demand

patterns to

improve forecast

accuracy.



Features & Extraction

encode categorical variables to make the model easily understand the

Increase the learned models by extracting Input dataset

Model

Linear Regression, Support Vector Machine, Lasso Regression, XGB Regressor models

Exponential

relies on a number of decision trees and uses mean prediction for the

Classification

predicts the categorical labels of data with the prediction

A classification model tries to draw a conclusion from the input values given for training. It will predict the class labels/ categories for the

The goal of classification is to

Using the time series approaches, the forecast is produced using the past accurately predict the target class recorded demand as input in order to for each case in the data.

Approach

When mixed approache are used, the forecastin method exploits both incoming information from recorded past demand and the predictor variables available in the dataset

Ouariflative forecasting techniques and qualifative forecasting techniques are used to identify the demand for the raw materials

Step-3: Idea Prioritization



Prioritize

So as to make sure that all the teammates are at the same page, place your ideas on this grid to determine which ideas are important and which are feasible

0 20 minutes

