

Ideation Phase

Brainstorm & Idea Prioritization Template

Date	14 October 2022
Team ID	PNT2022TMID01346
Project Name	Developing a Flight Delay Prediction Model using Machine Learning
Maximum Marks	4 Marks

Step-1: Problem Statement

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Problem statement

In this project, we predict the delay in flight using machine learning. Flight delays can be very annoying to airlines, airports, and passengers. Predicting flight delays can improve airline operations and passenger satisfaction, which will result in a positive impact on the economy. The main objective of the model is to predict flight delays accurately in order to optimize flight operations and minimize delays.



Key rules of brainstorming

To run a smooth and productive session

-  Stay in topic.
-  Encourage wild ideas.
-  Defer judgment.
-  Listen to others.
-  Go for volume.
-  If possible, be visual.

Step-2: Brainstorm, Idea Listing and Grouping

2

Brainstorm

0

Monisha

Book an
early
flight

Be ready
for the
process

Be on
schedule
time

Check the
weather
before
you leave

Deepika.

Book
nonstop
flights

Choose
right
seats

Enroll in
TSA pre
check

Enjoy
flight
travel

Mohana

Problems
with the
coffee
machine

People from
different
countries
may face
problems.

Passengers
going nuts

There is a
criminal
on board

Sai

Know
your
passenger
rights

Connect
the people
affected
by delay

Hold on to
your travel
documents

Claim
compensation



3

Group ideas



User interacts with the UI (User Interface) to enter Data.

The entered data is analyzed by the model which is integrated.

Once model analyses the input the prediction is showcased on the UI.

To accomplish this, we have to complete all the activities and tasks like Data collection, Data preprocessing, Model building, Application building.

In the Data collection process we collect the dataset or create the dataset.

And in the next process that is Data preprocessing, we have to Import the Libraries, dataset, Check for Null Values, Data Visualization.

Taking care of Missing Data, Label encoding and One Hot Encoding, Feature Scaling, Splitting Data into Train and Test.

An accurate estimation of flight delay is critical for airlines because the results can be applied to increase customer satisfaction and incomes of airline agencies.

Therefore, predicting flight delays can improve airline operations and passenger satisfaction, which will result in a positive impact on the economy.



Step-3: Idea Prioritization

4

Prioritize

⌚ 20 minutes

