


Ideation Phase

Brainstorm & Idea Prioritization Template




Date	19 September 2022
Team ID	PNT2022TMID12801
Project Name	Developing a Flight Delay Prediction Model using Machine Learning
Maximum Marks	4 Marks


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




Brainstorm & idea prioritization

Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

 10 minutes to prepare
 1 hour to collaborate
 2-8 people recommended

 **Before you collaborate**

A little bit of preparation goes a long way with this session. Here's what you need to do to get going.

 10 minutes

A Team gathering
Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.


B Set the goal
Think about the problem you'll be focusing on solving in the brainstorming session.

C Learn how to use the facilitation tools
Use the Facilitation Superpowers to run a happy and productive session.

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1 Define your problem statement

What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.


 5 minutes


PROBLEM


Developing a Flight Delay Prediction Model using Machine Learning


**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

Write down any ideas that come to mind that address your problem statement.

10 minutes

TIP

You can select a sticky note and hit the pencil (switch to sketch) icon to start drawing!

NANDISH CHANDRASEKAR

- Avoid telling the customer the exact time.
- Instead, inform them of the time range.
- Attempt to increase the speed while keeping track of the time.
- Build large airports.

SUJITH KUMAR M A

- Use apps to determine how frequently flights are typically delayed.
- Select the appropriate airport.
- Examine the on-time performance of all flights.
- Avoid many flights on the runway.

ANUSHA DEVI R

- To avoid traffic, schedule flights for the middle of the week.
- To avoid overlays, fly nonstop routes.
- Set up alternate flights.
- Select the best airlines.

TAMIL SELVAN M

- Always schedule a backup flight.
- Avoid travelling during the high season.
- To avoid queues, build a large number of check-in counters.
- Inform the time range of the flight instead of telling the exact time.

3

Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you can break it up into smaller sub-groups.

20 minutes

- Predicting whether a flight will be delayed or not is preferable than predicting the length of a flight's departure delay.
- It is necessary to randomly divide observations into training and test sets.
- Find out from apps how often conflicts are routinely delayed.
- Predicting flight delays during a specified time period for a particular airport.
- Construct more check-in counters to prevent queues.
- limiting the data set to only weather variables.
- Examine the on-time performance of all flights.
- Regression modelling can be used to make the feature more precise.
- Try to accelerate while keeping an eye on the time.

Step-3: Idea Prioritization

4

Prioritize

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

20 minutes

