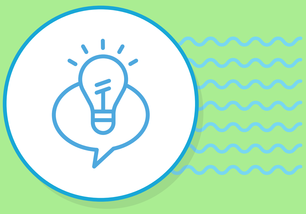
Template

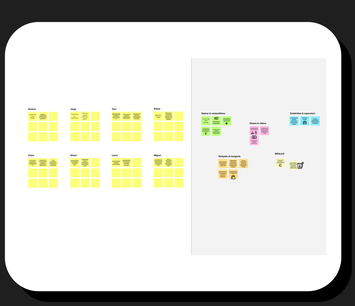


Flight Delay Prediction for aviation Industry using Machine Learning

Flight Delay Prediction can help more passengers can make more informed decisions about their travel plans and potentially avoid delays or missed connections

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

Share template feedback



Need some inspiration?

See a finished version of this template to kickstart your work.

Open example →

Flight Delay Prediction for aviation Industry using Machine Learning

A Team Leader sign in mural account through the our username and mail id. Team Leader sharing a inviting workspace link through the mail id in our team members. And our team members join our workspace.

10 minutes

A **Team gathering**

Totally Four Participation are the in this Session. We invite members to mural link and gathered in this session

B **Set the goal**

This project aims to compare the performance of Machine Learning classification algorithm. When predicting flight delays

C **Learn how to use the facilitation tools**

Facilitation tools can be very helpful for guiding group discussions, brainstorming sessions, or decision making processes.

Open article

1

Flight Delay Prediction for aviation Industry using Machine Learning

1. Predicting Flight Delay can improve airline operations and passengers satisfaction. Which fill result in a Positive impact on the economy.
2. This project aims to compare the performance of machine learning classification algorithm when predicting flight delays .
3. Using machine learning to predict flight arrival delays.
4. The input to our algorithm is rows of features vector like departure data, departure delay, distance between the two airports scheduled arrival time.
5. This project is used to create a model to predict flight departure delay.

PROBLEM

How might we [your problem statement]?

Key rules of brainstorming

To run an smooth and productive session

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

2

Brainstorm

10 minutes

TIP

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

Joviya

1.Google

2.Knowledge

3.Technics

4.Project documents

Karthika

1.Data

2.Technology

3.E-Mail

4.Python

Kaveri Kavitha

1) Network connection

2) Power connection

3) Algorithm is used

4) building html page

Keerthana

1. Import Libraries

2.run The Web Application

3. Flight Delay Dataset

4. Hardware Requirements are used.

Person 5

Person 6

Person 7

Person 8

3

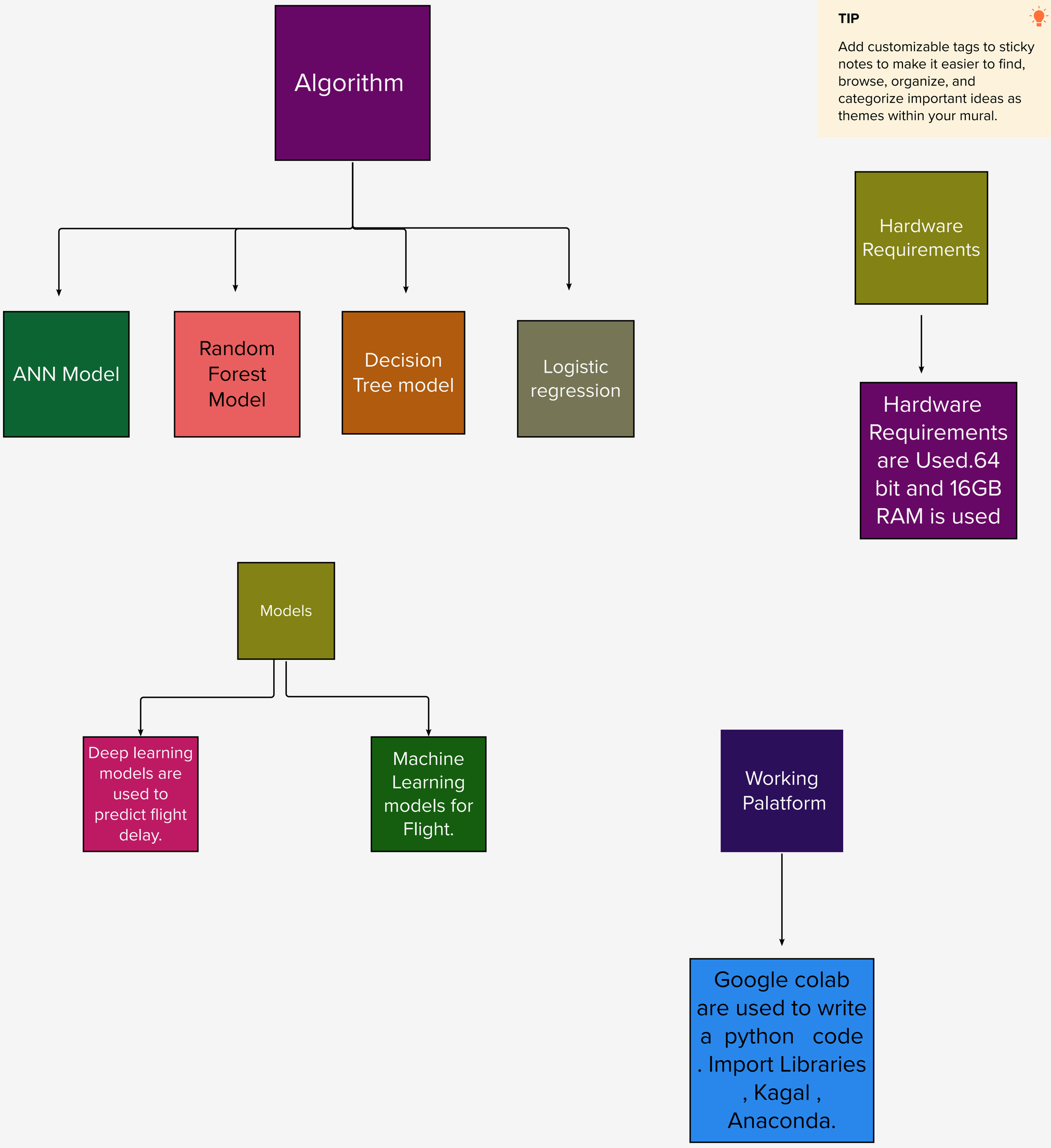
Group ideas

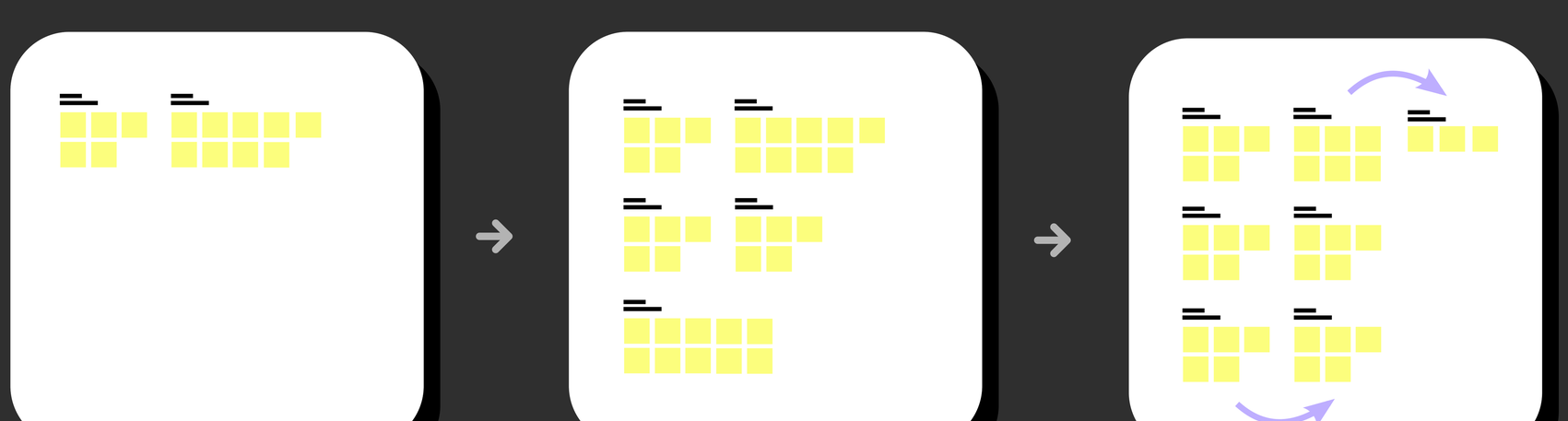
1. Hardware Requirements are Used.64 bit and 16GB RAM is used.
2. Machine Learning models for Flight.
3. Deep learning models are used to predict flight delay.
4. Classification Algorithm used. ANN Algorithm, Random forest model, Decision tree model, Logistic Regression.
5. Google colab are used to write a python code . Import Libraries , Kagal , Anaconda.

20 minutes

TIP

Add customizable tags to sticky notes to make it easier to find, browse, organize, and categorize important ideas as themes within your mural.





4

Prioritize

20 minutes

Importance

If each of these tasks could get done without any difficulty or cost, which would have the most positive impact?

1) Network connection

1.Data

2.Knowledge

1.Google

3.Technics

4.Project documents

1. Import Libraries

2.Technology

2) Power connection

3.E-Mail

2.run The Web Application

4.Python

3. Flight Delay Dataset

3. Flight Delay Dataset

4) building html page

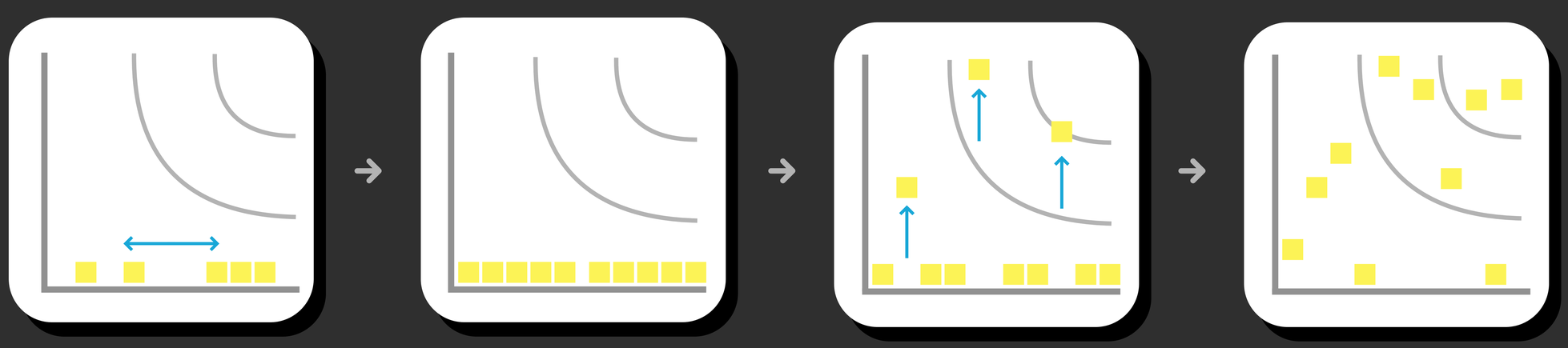
TIP

Participants can use their cursors to point at where sticky notes should go on the grid. The facilitator can confirm the spot by using the laser pointer holding the **H key** on the keyboard.

4. Hardware Requirements are used.

Feasibility

Regardless of their importance, which tasks are more feasible than others? (Cost, time, effort, complexity, etc.)



After you collaborate

We can export the mural as pdf to share.
It is helpful to getting information.

Quick add-ons

A **Share the mural**
Share a view link to the mural with stakeholders to keep them in the loop about the outcomes of the session.

B **Export the mural**
Export a copy of the mural as a PNG or PDF to attach to emails, include in slides, or save in your drive.

Keep moving forward

Strategy blueprint
Define the components of a new idea or strategy.

Open the template →

Customer experience journey map
Understand customer needs, motivations, and obstacles for an experience.

Open the template →

Strengths, weaknesses, opportunities & threats
Identify strengths, weaknesses, opportunities, and threats (SWOT) to develop a plan.

Open the template →

Share template feedback

Template

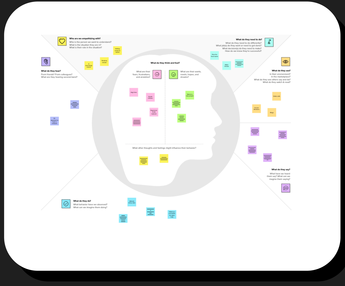
Empathy map canvas

Using this empathy map canvas, you can identify the needs and concerns of your passengers, which can help inform your approach to predicting and managing flight delays.

Originally created by Dave Gray at

XPLANE®

Share template feedback



Need some inspiration?

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Open example →

Develop shared understanding and empathy

Summarize the data you have gathered related to the people that are impacted by your work. It will help you generate ideas, prioritize features, or discuss decisions.

WHO are we empathizing with?

Who is the person we want to understand?
What is the situation they are in?
What is their role in the situation?

Passengers who rely on flights to get to their destination on time.

Airline companies who need to manage their flights efficiently and keep their customers happy.

GOAL

What do they need to DO?

What do they need to do differently?
What job(s) do they want or need to get done?
What decision(s) do they need to make?
How will we know they were successful?

Communicate effectively with passengers about delays and alternate travel options

use machine learning and predictive analytics to forecast potential flight delay and proactively manage operations to minimize disruptions

Train employees to handle customer complaints and manage delays effectively

Monitor weather patterns and other external factors that may impact flight schedules

What do they HEAR?

What are they hearing others say?
What are they hearing from friends?
What are they hearing from colleagues?
What are they hearing second-hand?

Announcements about flight delays and the reasons behind them.

Updates from airline staff and customer service representatives.

Frustration and complains from other passengers.

What do they THINK and FEEL?

PAINS
What are their fears, frustrations, and anxieties?

GAINS
What are their wants, needs, hopes, and dreams?

Happy and relieved when they are informed of potential delays in advance

Anxious about ensuring safety and Security during disruptions

Frustrated and anxious when their flights are delayed.

Relieved when they are able to manage disruptions effectively

What other thoughts and feelings might influence their behavior?

Effective management of flight delays requires consideration of these emotions and motivations .

stress and pressure caused by hight demand and tight schedules .

What do they SEE?

do they see in their immediate evironment?
What do they see others saying and doing?
What are they watching and reading?

Display showing flight information and updates

What do they SAY?

What have we heard them say?
What can we magine them saying?

Longlines and crowds at check-in and security

Customer feedback and reviews

What do they DO?

What do they do today?
What behavior have we observed?
What can we imagine them doing?

sign up for flight notifications and alerts from airlines to say informed about potential delays and changes in flight schedules.

Check in online and arrive at the airport early to allow for any delays or disruptions.

Follow instructions from airline staff and airport personnel during delays and be patient and understanding.