

Ideation Phase

Brainstorm & Idea Prioritization Template

Date	30 October 2023
Team ID	Team-592109
Project Name	Airline Review Classification Using Machine Learning
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization Template:

Brainstorming provides a free and open environment that encourages everyone within a team to participate in the creative thinking process that leads to problem solving. Prioritizing volume over value, out-of-the-box ideas are welcome and built upon, and all participants are encouraged to collaborate, helping each other develop a rich amount of creative solutions.

Airline Review Classification Using Machine Learning

Our project aims to develop an airline review classification system utilizing machine learning models like Decision Tree, Random Forest, and XGBoost. With the vast user-generated content on social media and travel websites, our goal is to extract valuable insights from unstructured text data. This system will aid airlines in refining their services to enhance passenger satisfaction.

Reference: <https://www.mural.co/templates/empathy-map-canvas>

Template



Airline Review Classification Using Machine Learning

Our project aims to develop an airline review classification system utilizing machine learning models like Decision Tree, Random Forest, and XGBoost.

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



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

 10 minutes



Team Members 1



Goal is to train a Machine Learning model to classify the Airline Reviews

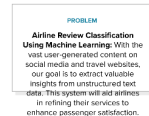


Use the Facilitation Superpowers to run a happy and productive session.

[Open article](#) →

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



To run an 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 then point (click to select), icon to start drawing!

Team Member - Kumar

Establishing a system to find the fake review feedback.

Exploring NLP methods to understand context and emotions in reviews

Extracting sentiment, keywords, and topics for robust classification.

Implementing text preprocessing techniques for cleaning unstructured data.

Exploring various classification models, including deep learning methods for enhanced accuracy.

Determining appropriate evaluation metrics for model performance.

Develop User friendly interface

Establish a system to monitor and update your model according to trend

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 and break it up into smaller sub-groups.
[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 map.

Model and Data Handling

Extracting sentiment, keywords, and topics for robust classification.

Implementing text preprocessing techniques for cleaning unstructured data.

Determining appropriate evaluation metrics for model performance.


Exploring various classification models, including deep learning methods for enhanced accuracy.

Implementation


Establish a system to monitor and update your model according to trend


Develop User friendly interface

Establishing a system to find the fake review feedback.




→






→



→



Link:

Or

<https://drive.google.com/file/d/1PuLbvDDWiKECdJeiKIM19VTsKvGu4PTg/view?usp=sharing>