

Ideation Phase

Brainstorm & Idea Prioritization Template

Date	31 January 2025
Team ID	PNT2025TMID01163
Project Name	Predicting Plant Growth Stages with Environmental and Management Data Using Power BI
Maximum Marks	4 Marks

Step-1:

Template



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



Need some inspiration?
See a finished version of this template to kickstart your work.

[Open example](#) →

Step - 2:

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

Predict plant growth stages using environmental and management data in Power BI.



Key rules of brainstorming

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 3:

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!

Anmol Agarwal

Problem Statement: Build a system that can detect and classify anomalies in network traffic data.

Brainstorming Ideas:

 - Use machine learning models like Random Forest or SVM for anomaly detection.
 - Implement a rule-based system to flag suspicious activities.
 - Utilize network flow logs and packet capture data for analysis.
 - Integrate with SIEM (Security Information and Event Management) tools.

Ansh Mittal

Problem Statement: Develop a system to monitor and analyze user behavior patterns on a website.

Brainstorming Ideas:

 - Use cookies and session tracking to monitor user activity.
 - Implement a heatmap to visualize user interactions.
 - Utilize analytics tools like Google Analytics for data collection.
 - Integrate with CRM (Customer Relationship Management) systems.

Ashish Kr. Raghav

Problem Statement: Create a system to detect and prevent fraud in online transactions.

Brainstorming Ideas:

 - Use machine learning models to identify fraudulent patterns.
 - Implement a two-factor authentication system.
 - Utilize transaction history and user behavior for risk assessment.
 - Integrate with payment gateways for real-time monitoring.

Ajeet Sharma

Problem Statement: Develop a system to monitor and analyze social media sentiment.

Brainstorming Ideas:

 - Use natural language processing (NLP) techniques for sentiment analysis.
 - Implement a real-time monitoring system.
 - Utilize social media APIs for data collection.
 - Integrate with data visualization tools for reporting.



Step - 4:

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

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

Data Integration and Management

Integrate data from multiple sources into a single, unified view.

Use a data integration platform to connect and manage data across different systems.

Implement data governance policies to ensure data quality and security.

Prediction and Forecasting

Use machine learning algorithms to analyze historical data and predict future trends.

Implement a forecasting model to generate accurate predictions for key metrics.

Monitor and update the model regularly to ensure it remains accurate and relevant.

Data Visualization

Visualize data using charts, graphs, and dashboards to make it easier to understand and communicate.

Use interactive visualization tools to allow users to explore data and uncover insights.

Implement data storytelling techniques to present data in a clear and compelling way.

Optimization and Alerts

Use optimization techniques to improve system performance and reduce costs.

Implement alerting mechanisms to notify users of critical events and anomalies.

Monitor system health and performance metrics to proactively identify and address issues.



Step 5:

4

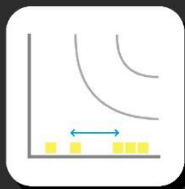
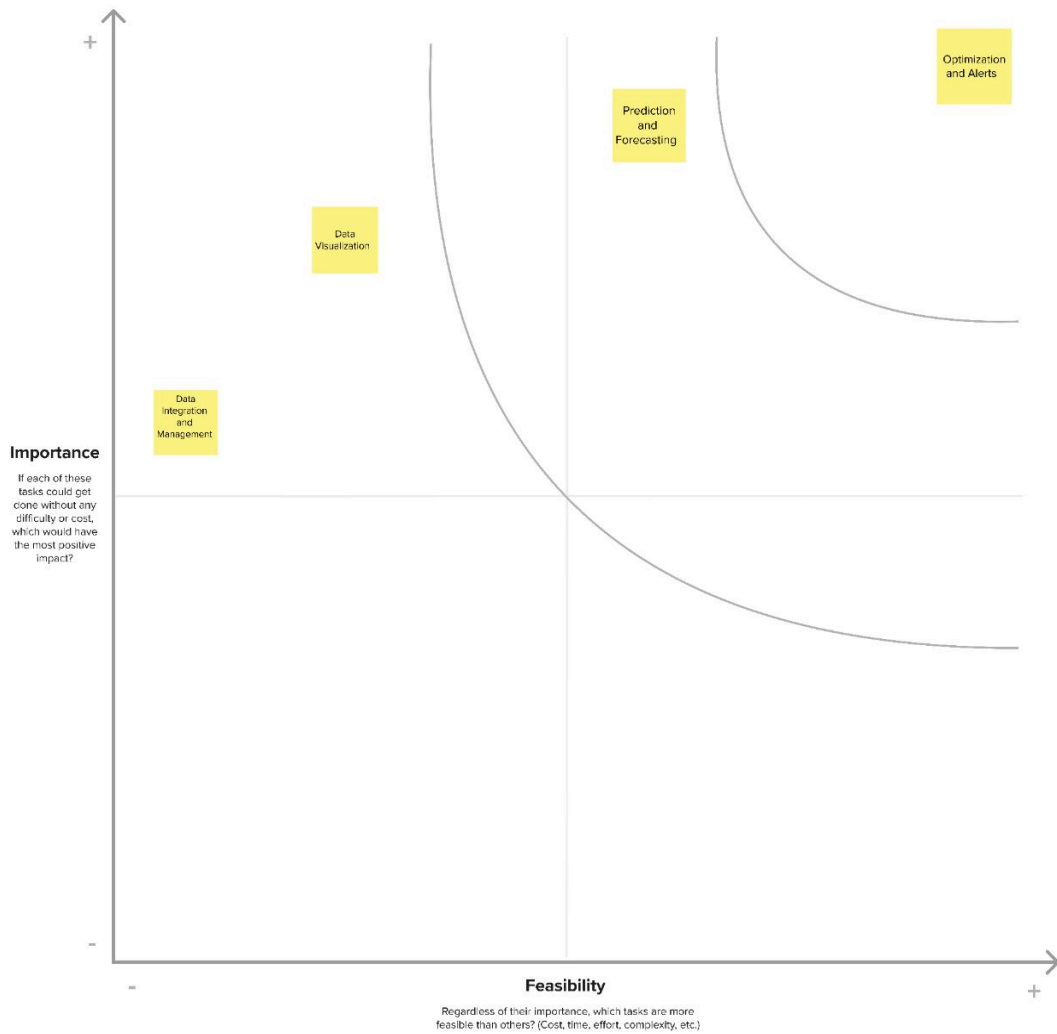
Prioritize

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.

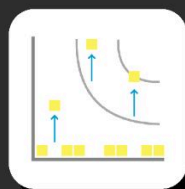
🕒 20 minutes

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.



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