

Ideation Phase

Brainstorm & Idea Prioritization Template

Date	14 Feb 2026
Team ID	LTVIP2026TMIDS47450
Project Name	prosperity prognosticator: machine learning for startup success prediction
Maximum Marks	4 Marks


Brainstorm & Idea Prioritization Template:

Brainstorming plays a crucial role in generating creative, practical, and impactful solutions. In this project, our aim is to build a robust deep learning model capable of classifying various rice grain types from images. This model is especially useful for farmers, agri-researchers, and home growers. The brainstorming session allowed our team to explore multiple technical and user-centered possibilities ranging from dataset design, model selection, and feature optimization to user experience and community-level impact.

This template helps structure our thought process, allowing the team to:

- Identify innovative solutions using AI in agriculture
- Address real-world agricultural challenges
- Align deep learning technologies with farmer-centric applications
- Evaluate feasibility, scalability, and real-world usability of proposed ideas

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



Startup Success Prediction

Use this template to create a **machine learning model** to **predict startup success**. This session will cover **data collection**, **EDA**, **model building**, and evaluation.

- ⌚ 10 minutes to gather and prepare data
- 🕒 1 hour for EDA and model training
- 👥 2-3 people recommended


Gather and Prepare Data

Before starting, gather and understand your data. Here's what to do first.

⌚ 10 minutes

- ✓ **Load the data**
Ensure your data file is in the project folder and load it into your Jupyter Notebook.
- ✓ **Understand the dataset**
Check the data shape, types of features (like funding amounts, sector, state) and look for any missing values.
- ✓ **Clean the data**
Fill in missing values and reduce categorical feature categories.

⌚ 10 minutes



Key Considerations for Model Building


Keep these points in mind while building your model.

⌚ 1 hour

- ✓ **Feature Selection**
Focus on features that influence startup success.
- ✓ **Train-Test Split**
Use a 70–30 split for training and testing.
- ✓ **Model Evaluation**
Test multiple models like Logistic Regression and Random Forest.
- ✓ **Hyperparameter Tuning**
Fine-tune your best model to improve performance.

Tip for Testing Imbalance

If the target class (success/failure) is imbalanced, use metrics like **F1-score**, **precision**, **recall**, instead of just accuracy.



Step-2: Brainstorm, Idea Listing and Grouping

Brainstorm Ideas

🕒 10 minutes

Write down any ideas that come to mind for predicting startup success.

TIP
You can write sticky notes with different ideas for predicting startup success.

Person 1
Collecting and labeling diverse data about startups, like funding, sector, state.


Person 2
Choosing a suitable machine model (e.g. Logistic Regression or Random Forest)

Person 3
Preprocessing data to clean and format it properly before training the model.

Person 4
Evaluating model accuracy using metrics like precision and recall.

Person 5
Building a web app so users can easily check startup success predictions.

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Building a web app so users can easily check startup success predictions.



Group Ideas


Cluster similar ideas and organize them into categories to focus your efforts.

🕒 20 minutes

TIP
Group similar sticky notes into categories, then give each category a clear title. If a cluster is too large, break it down further into smaller groups.

Grouped Idea Categories – Summary

- Data Collection**
 - Gather diverse data like funding amounts, sector, state.
- Model Selection**
 - Test models like Logistic Regression and Random Forest.
- Preprocessing & Accuracy**
 - Clean, format, and normalize data
 - Use metrics like precision, recall, F1-score.
- Web App Development**
 - Build a simple web app for users to check startup success.
- Deployment & Access**
 - Ensure fast model predictions
 - and seamless user experience.

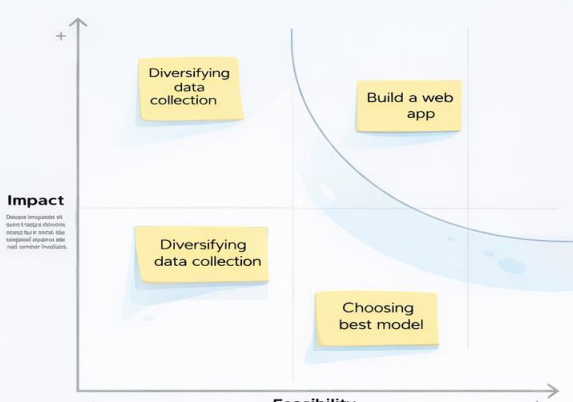


Step-3: Idea Prioritization

Prioritize Ideas

🕒 20 minutes

Evaluate ideas based on impact and **feasibility**. Focus on ideas that are both **impactful** and easy to implement with your current resources.



Pick ideas that:

- Focus on ideas that are both impactful and realistic.
- Discuss what's achievable with your current resources.
- Consider time, data quality, and technical complexity.

After You Collaborate

Export your Startup Success prediction board and create a plan for next steps. Continue tracking progress to build a successful machine learning model.

TIP
Track your model's performance over time. Use feedback to make improvements.

Quick add-ons

- Share the board**
Send the board link to stakeholders to keep them in the loop about outcomes.
- Export the board**
Save the board as a PDF document for easy sharing.
[Open the template](#)

Keep moving forward

- Model Planning Blueprint**
 - Create a detailed plan covering EDA, features, model selection, and validation.
- Deployment Roadmap**
 - Map out steps to develop, test, and deploy your model into a web app predictions.
- SWOT Analysis**
 - Evaluate Strengths, Weaknesses, Opportunities, and Threats to refine and test your model.
[Open the template →](#)

