

## 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.



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.

**Group Ideas**

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

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.

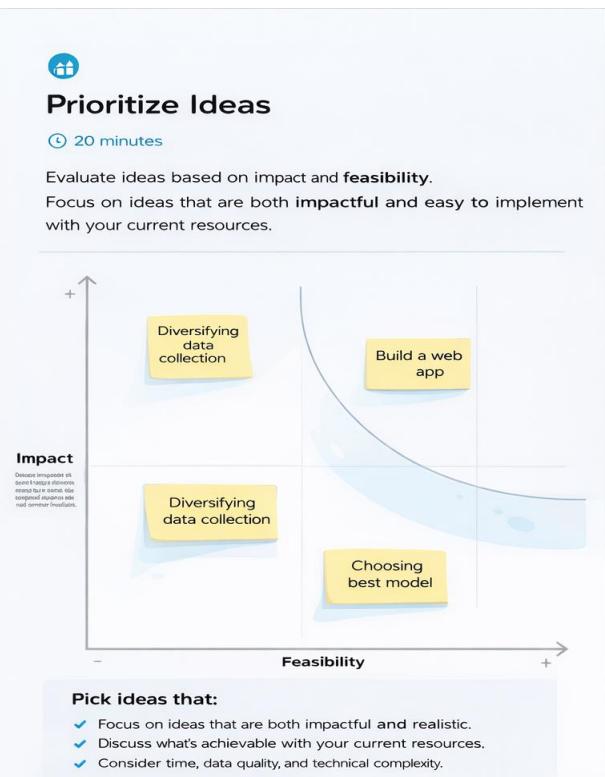
## Step-3: Idea Prioritization

**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**

TIP: Track your model's performance over time. Use the dashboard to make improvements.

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

**Quick add-ons**

- 1 Share the board: Send the board link to stakeholders to keep them in the loop about outcomes.
- 2 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](#)

