


Ideation Phase

Brainstorm & Idea Prioritization Template

Date	19 September 2022
Team ID	PNT2022TMID30223
Project Name	Predicting Energy Output of wind turbine based on weather condition
Maximum Marks	4 Marks

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



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

➔

Before you collaborate

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

🕒 10 minutes

A Team gathering
Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.

B Set the goal
Think about the problem you'll be focusing on solving in the brainstorming session.

C Learn how to use the facilitation tools
Use the Facilitation Superpowers to run a happy and productive session.

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1


Define your problem statement

To develop a novel method for predicting energy output of wind turbine based on weather condition.

🕒 5 minutes

PROBLEM

How might we develop a novel method for predicting energy output of wind turbine based on weather condition?



Key rules of brainstorming

To run a smooth and productive session

- Stay in topic.
- Defer judgment.
- Go for volume.
- Encourage wild ideas.
- Listen to others.
- 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 hit the pencil (switch to sketch) icon to start drawing!

VishnuVignesh Y

Recognize weather condition

Turbines Availability

Auto regressive Model

Create a GUI to predict the energy

Analyze the speed of turbine

Taking Input from User

Vignesh C

LSTM Models

Python flask

Output in KiloWatt/Hr

Physical Model

Design a web Application

Future wind speed prediction

Simon Christopher P

Identifying location

Identifying the maximum speed limit

Gather wind speed

Wind power forecasting

Estimate power curve

Power data processing

Suman A

Wind Direction

Date and time

Statistical Model

Future wind direction prediction

Recurrent Neutral network with LSTM

Predicting system output

Praveen Kumar S

Finding Humidity

Analyzing the wind blade size

Estimate power

Physical Model

Analyze the speed of turbine

Wind Direction

3

Group Ideas

Take turns sharing your ideas while clustering similar or related notes as you go. In the last 10 minutes, 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

IDENTIFICATION

Future wind direction prediction

Wind power forecasting

Identifying location

Turbines Availability

Identifying date and time

MODULES

Create a GUI to predict the energy

Taking Input from User

LSTM Models

Training of models

Auto regressive Model

Step-3: Idea Prioritization

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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

