Ideation Phase Empathize & Discover

Date	18 October 2023
Team ID	Team-592485
Project Name	Project - Greenclassify: Deep Learning-Based Approach For Vegetable Image Classification
Maximum Marks	4 Marks

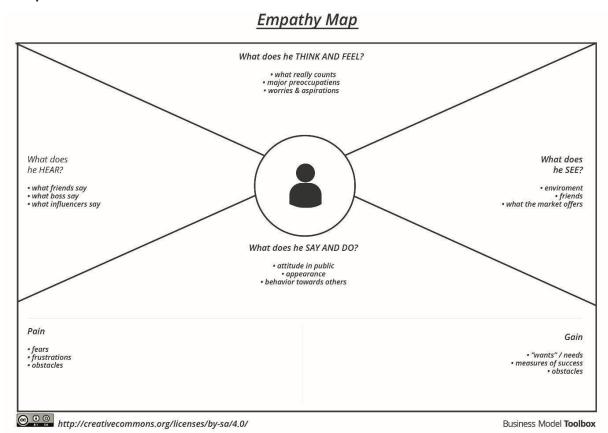
Empathy Map Canvas:

An empathy map is a simple, easy-to-digest visual that captures knowledge about a user's behaviours and attitudes.

It is a useful tool to helps teams better understand their users.

Creating an effective solution requires understanding the true problem and the person who is experiencing it. The exercise of creating the map helps participants consider things from the user's perspective along with his or her goals and challenges.

Example:



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



WHO are we empathizing with?

Who is the person we want to understand? What is the situation they are in? What is their role in the situation?

> Machine learning engineers are in the situation of developing and fine-tuning the model.

Production line operators might seek a system that minimizes manual sorting and reduces errors.

GOAL

What do they need to DO?

What do they need to do differently? What job(s) do they want or need to get done?



Different species, colors, and shapes of vegetables.

(3)

What do they HEAR?

What are they hearing others say? What are they hearing from friends? What are they hearing from colleagues? What are they hearing second-hand?

> Feedback from users and stakeholders about the importance of accurate vegetable classification.

Opinions on the usability of the classification system.

Stakeholders could have financial and efficiency goals, aiming to reduce costs and improve overall productivity. image classification

Frustration if

the system

misclassifies

vegetables

What do they THINK and FEEL?

PAINS

What are their fears, frustrations, and anxieties?



GAINS

What are their wants, needs, hopes, and dreams?

Enhanced

classification

would reduce

the need for

manual

Difficulty using the system under poor lighting conditions.

Improved accuracy would lead to higher product quality

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intervention.

Faster and more efficient classification could boost our production rates.

What other thoughts and feelings might influence their behavior?

Pressure to Meet **Production Targets:** Production line operators may feel pressure to meet daily production quotas, which can influence their behavior and their willingness to adopt a new classification system.

images for

model.

Excitement for Technological Advancements: Machine learning engineers and data annotators might feel excited about the potential of cuttingedge technology to enhance their skills and contribute to a more accurate classification system. This excitement can drive their engagement and commitment to the project.

Users might become more actively involved in providing diverse training data to improve the model.

financial and efficiency targets.

Want to optimize

resource allocation

and ensure the

system meets

Machine learning engineers might need to explore new approaches, algorithms, or technologies to improve model performance.

> Sample images with varying resolutions and backgrounds.

Images of various vegetables, both raw and cooked



What do they SEE?

What do they see in the marketplace? What do they see in their immediate environment? What do they see others saying and doing? What are they watching and reading?



What do they SAY?

What have we heard them say? What can we magine them saying?

Users might say they want a userfriendly app or system for vegetable recognition.

> They might use the system in different settings, such as supermarkets or their own kitchens.



What do they DO?

What do they do today? What behavior have we observed? What can we imagine them doing?

Users might label or annotate training the classification

Operators might be visually inspecting and sorting vegetables manually due to classification inaccuracies.