

Ideation Phase

Empathize & Discover

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|---------------|---------------|
| Date | 23.10.23 |
| Team ID | Team-592290 |
| Project Name | GreenClassify |
| Maximum Marks | 4 Marks |

Empathy Map Canvas:

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

It is a useful tool to help 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.

GreenClassify: Deep Learning-Based Approach For Vegetable Image Classification

Vegetable image classification plays a crucial role in various domains such as agriculture, food industry, and dietary analysis. Accurate identification and classification of vegetables are essential for quality control, inventory management, and automated sorting systems. In recent years, the advent of deep learning techniques has revolutionized the field of computer vision, enabling more accurate and efficient image classification tasks.

The objective of this report is to explore and analyze the application of deep learning algorithms for vegetable image classification. By leveraging convolutional neural networks (CNNs), we aim to develop a robust and reliable system that can accurately classify different types of vegetables based on their visual attributes.

Deep learning algorithms have demonstrated remarkable success in various image recognition tasks, surpassing traditional machine learning approaches. The ability of CNNs to automatically learn hierarchical features from raw image data makes them particularly well-suited for complex classification problems. By training a CNN model on a large dataset of labeled vegetable images, we can harness its power to recognize patterns and extract discriminative features from the input data.

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