

Brain Storming and Prioritize ideas

Project Title: Accurate Body Fat Prediction using Machine Learning

Team Members:

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Brainstorming ideas is a creative process where a group generates a list of potential solutions, suggestions, or concepts for a specific problem or project. Voting in brainstorming involves participants selecting and prioritizing their favorite or most promising ideas from the list to determine which ones should be pursued further.

Define your problem statement

Developing a machine learning-based solution that provides highly accurate and personalized body fat predictions, empowering individuals to take proactive steps towards achieving and maintaining optimal body composition and overall health.

Problem statement in the form of “How might we”:

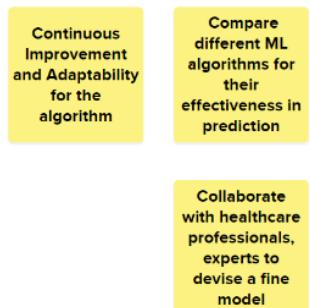
PROBLEM

"How might we develop a machine learning-based system that accurately predicts an individual's body fat percentage by analysing health-related data, ensuring precision and reliability in body composition assessment?"

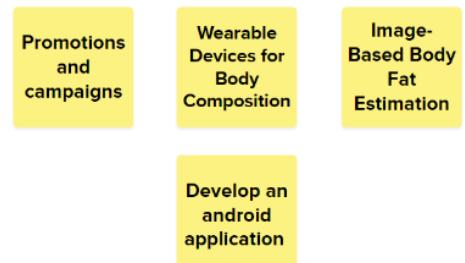
Brainstorm:

Writing down any ideas that come to mind that address your problem statement.

Adithya Vardhan Dosapati



Gnana Sujith



Mamaduru Deva Sai Praveen



Dileep Sai Manthena



Voting for different ideas:

We conducted voting session to arrive at a conclusion from the different ideas taken above in Brainstorming session.

The results for the voting are listed below:

Design a ML model

Image-Based Body Fat Estimation

Collaborate with healthcare professionals, experts to devise a fine model

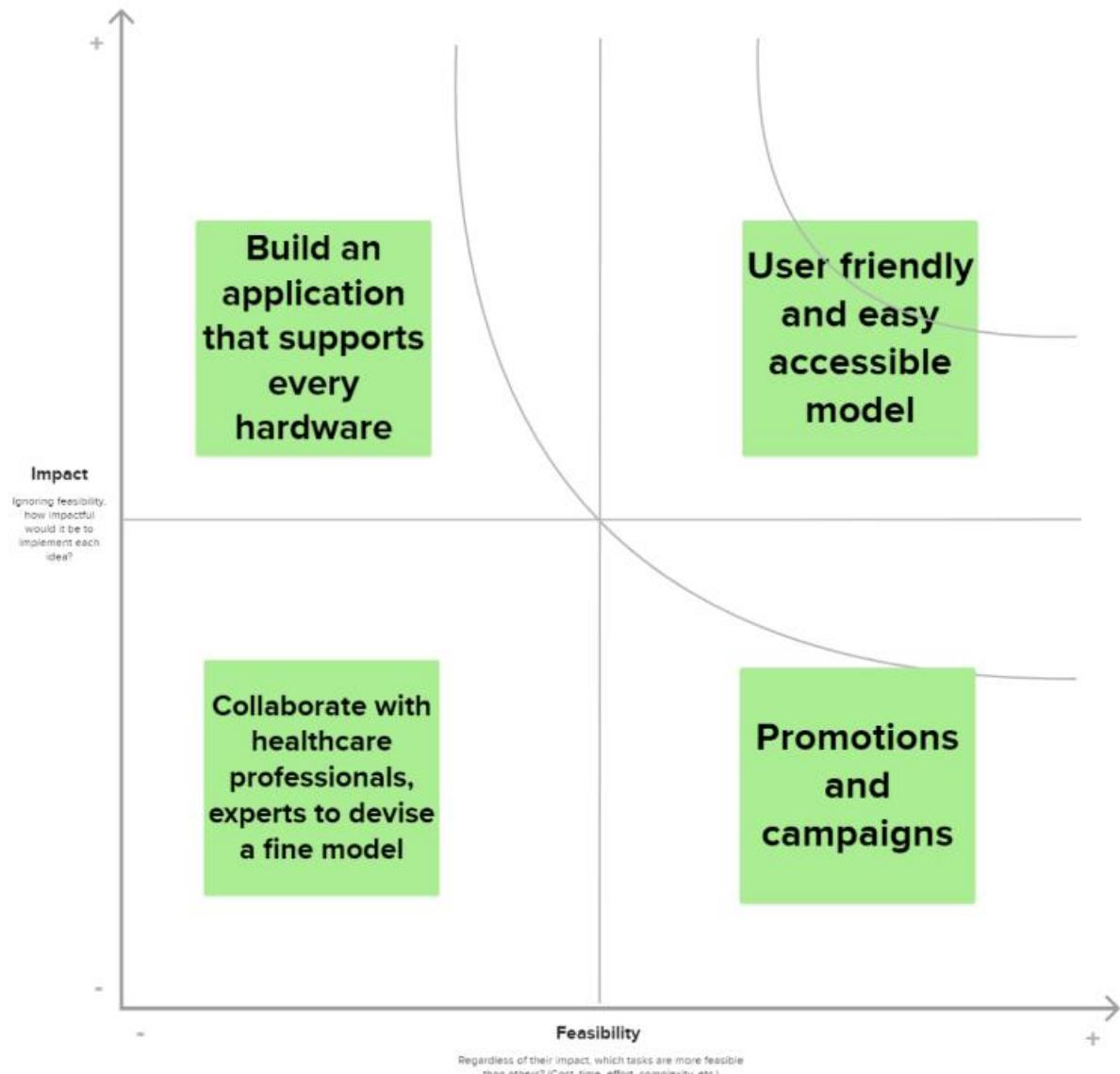
Continuous Improvement and Adaptability for the algorithm

Compare different ML algorithms for their effectiveness in prediction

Promotions and campaigns

Idea Prioritization:

Idea prioritization is the process of ranking or assessing ideas based on specific criteria such as feasibility, impact, cost, or strategic importance to determine which ideas should be implemented or pursued first.



Here's description for why the idea of "User friendly and easily accessible model" was chosen over the other options:

The idea shows the ultimate goal on what the model being developed.

Creating a user-friendly and easily accessible model directly addresses the challenge of inclusivity. It ensures that a larger audience can benefit from the solution without facing technological or usability barriers. This inclusivity is crucial for maximum impact.

Building an application that supports every hardware might be a mammoth task due to the diversity of devices. Collaborating with healthcare professionals and experts might take time to devise a fine model due to the intricacies involved. Promotions and campaigns might also leave low impact despite being highly feasible as it can be a time taking process. On the other hand, the proposed user-friendly model could be relatively easier and quicker to implement, providing a solution in a shorter timeframe.

In conclusion, the selection of User friendly and easily accessible model as our top priority is a strategic decision based on its high impact potential, feasibility, and alignment with our goals. We are confident that this choice will propel us toward a more user-centric and user-friendly model.