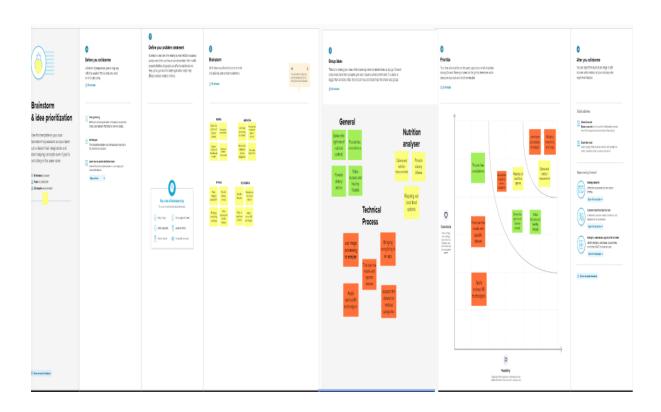
| TEAM ID | PNT2022TMID19729 | | |
|--------------|---|--|--|
| PROJECT NAME | AI Powered Nutrition Analyser for Fitness | | |
| | Enthusiasts | | |

PHASE 1:

Ideation Phase:

- 1.Brainstorm and ideation
- 2.Empathy Map
- 3.Literature Survey

1.Brainstorm and Ideation:



2.Empathy Map:



3.Literature Survey:

LITERATURE SURVEY

| SNO | TITLE OF THE PAPER | NAME OF THE JOURNAL | AUTHOR | YEAR OF PUBLISHING | ACHIEVEMENTS | DRAWBACKS |
|-----|---|---------------------------|--|--------------------------|--|---|
| 1. | A New Deep Learning- based Food Recognition System for Dietary Assessment on An Edge Computing Service Infrastructure | IEEE | Chang Liu, Yu Ca, Yan Luo, Guanling Chen, , Vinod Vokkarane, Yunsheng Ma, Songqing Chen. | 2017 | Reduces response time that is equivalent to the minimum of the existing approaches and lowering energy consumption. | Much larger data sets are needed to provide convincing evidence to verify the efficacy and effectiveness of the proposed system. |
| 2. | ArCycleGAN: Improved CycleGAN for Style Transferring of Fruit Images | IEEE | Hui Li,Mengxi Guan, Hongqian Chen | 2021 | CycleGAN, which can generate fruit images with specified freshness while maintaining the shapes and main features of the fruit in input source images. | The adaptive adjustment capabilities of network parameters can be improved. |
| 3 | Towards Eating Habits Discovery in Egocentric Photo- Streams | IEEE | Alina Matei ,Andreea Glavan,Petia Radeva, Estefania Talavera | 2021 | Automatic discovery of nutritional routine from unseen egocentric photo-streams. | Implementation of the proposed system is not as efficient as in paper . |
| 4 | Artificial Intelligence in Nutrients Science Research: A Review | MDPI | Jarosław Sak, Magdalena Suchodolska | 2021 | A total of 399 records published between 1987 and 2020 were obtained and reviewed with great care and final report was submitted. | We cannot rely completely on this review paper and come to a conclusion. |
| | - Julianieus | | | | | |
| 5 | Precision Nutrient Management Using | MDPI | Hsiu-An Lee , Tzu-Ting Huang , Lo-Hsien Yen , Pin-Hua Wu, | | Proposes an Intelligence Precision Nutrient | Here is not yet a complete set of publicly available data on |

| | Artificial Intelligence Based on Digital Data Collection Framework | | Kuan-Wen Chen , Hsin- Hua Kung , Chen-Yi Liu, Chien-Yeh Hsu | | Analysis Model based on a digital data collection framework, where the nutrient intake was analyzed by entering dietary recall data. | food nutrient ingredients. More complete data and references on micro-nutrients should be available in the future. |
|---|---|------|---|------|---|--|
| 6 | A Systematic Literature Review of Machine Learning Techniques Deployed in Agriculture: A Case Study of Banana Crop | IEEE | Amit Prakash Singh; Priyanka Sahu; Anuradha Chug; Dinesh Singh | 2022 | The study has been carried out to perform a systematic literature review of research papers that deployed machine learning (ML) techniques in agriculture, applicable to the banana plant and fruit production. | The available frameworks are not robustly constructed. |