NIVALA

LET'S MAKE EVERY NIVALA COUNT

SDG 12

RESPONSIBLE CONSUMPTION AND PRODUCTION

A technology based solution that promotes responsible consumption and production by improving resource efficiency and minimizing environmental impact of production and consumption activities.

PROPOSED SOLUTION

We plan to induce an inventory management model in the market which can help supply chains and restaurants to control and micromanage their raw material stocks more efficiently.

Our model predicts the stock data and usage corresponding to different materials bought by the firm. On the basis of this data, our app aims to help the company with an analysis to target the following:

reduce wastage of material

predict the excessive need of the material based on the region, season and festival change

help the company make use of its leftovers and raw material before its expiry

Impact of the solution

PHASE 1

help the company use resources efficiently

PHASE 2

help the company maximize on inventory based on the region, festival and seasonal demands

PHASE 3

collaborate with food drives to circulate leftovers to the people in need

APPLIED TECHNOLOGY

Machine Learning

Data collection

Predictive models

FRONT-END LINK :

https://www.figma.com/proto/FrLc9z1M36yXe9kdxqD7lS/Nivala-UI?node-id=108%3A747&scaling=scale-down&page-id=0%3A1&starting-point-node-id=108%3A747

BACK-END LINK :

https://colab.research.google.com/drive/1ClzgX66N5as_tgkM-7qr-kyEbLwMy_fw?usp=sharing

COLLAB WITH NOBEL FOOD DRIVE

collaborating with food drives across India shall help the company contribute to the below poverty line community and tackle the issue of malnourishment amongst a large part of the population

LINKING WITH SWIGGY

this collaboration shall help the restaurants make their inventory more demand and public friendly as it shall provide them with data about the most frequently bought food, which shall in turn help the restaurants be prepared for the demand and not fall short with the materials.

AN ECONOMICAL METHOD FOR FOOD DONATIONS

individuals who plan to donate food can make use of this app and reach out to the people in need.

we aim to target the other 2 SDGs: poverty and zero hunger

FUTURE SCOPE

GAPS TO WORK ON

AS SUGGESTED BY THE INDUSTRY MENTORS

RECOMMENDATION 1

GENREALISE THE MODEL FOR DIFFERENT REGIONS

RECOMMENDATION 2

ADD ADMIN PAGE TO THE USER INTERFACE

RECOMMENDATION 3

INCREASE THE TIME DEPENDENT DATA

RECOMMENDATION 4

ADD LINKAGE BETWEEN THE FRONTEND AND THE BACKEND