

# 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

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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:

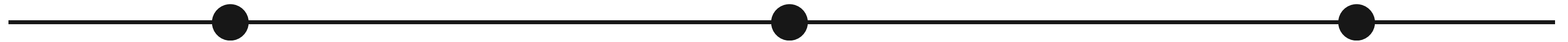
- reduce wastage of material

- 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

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# Impact of the solution



## PHASE 1

help the company use  
resources efficiently

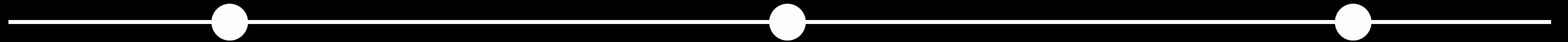
## PHASE 2

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](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



GENERALISE 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