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ML03-CROP RECOMMENDATION SYSTEM

Agenda

- Problem-Satement
- Mission
- Goals and Strategy
- Resources
- Team Members

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PROBLEM STATEMENT

- To find the appropriate crop for the farmers in various locations in India
- Crops to be recommended by taking soil profile and weather conditions based on the geolocations

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MISSION

- Weather Forecasting
- Training a model using machine learning to recommend crops
- Develop a web application for a seamless user experience

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GOAL AND STRATEGY

- Weather Forecasting-used an open weather API
- Finding the mean of 2 months of forecasted weather data
- Recommending the only crops which are really feasible to grow, thereby avoiding false recommendations which may lead to huge losses

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GOAL AND STRATEGY cont..

- Training model-Random Forest Classifier (Archived an accuracy over 99%)
- Web Application- used Django framework and deployed using AWS

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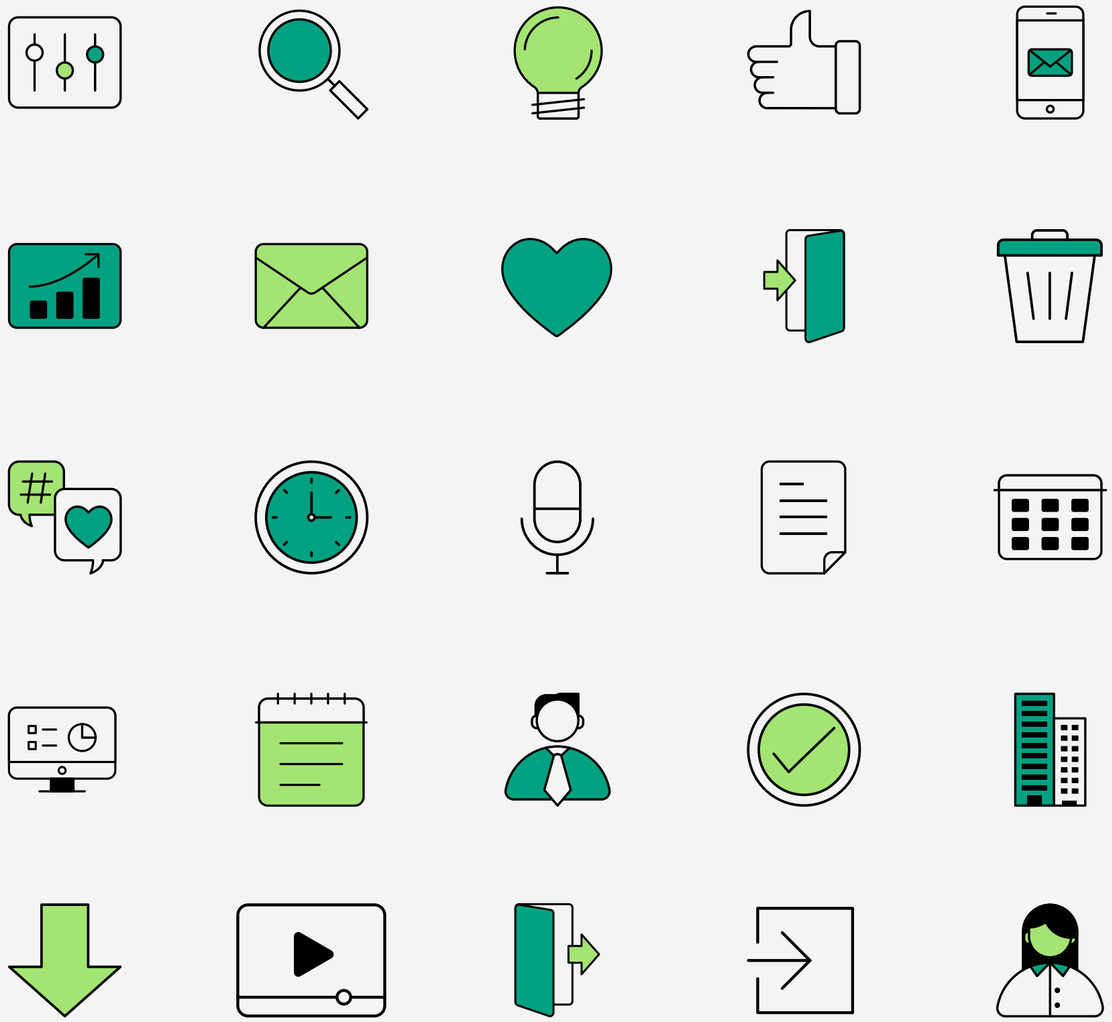
Resource Page

- API used:
  https://www.weatherapi.com/
- AWS:
  https://aws.amazon.com/?nc2=h_lg
- Dataset used:
  https://www.kaggle.com/datasets/atharvaingle/crop-recommendation-dataset
- Project Repository:
  https://github.com/dksr1729/TRINIT_SASTRALWC_ML



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TEAM-SASTRA-LWC

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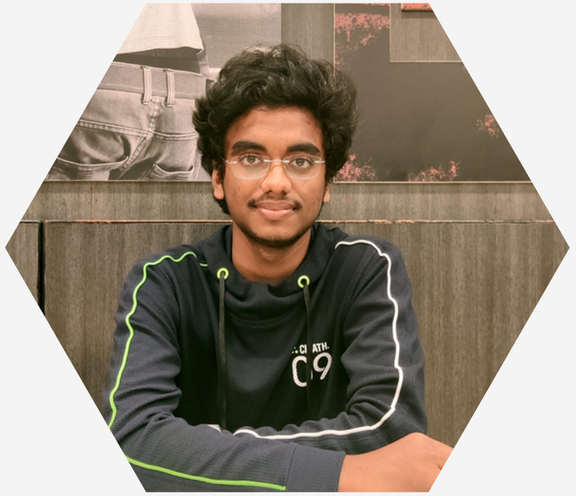

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Thank you