Project Title: DemandEst - AI powered Food Demand Forecaster

Project Design Phase-I - Solution Fit

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Define CS, fit into CC

1. CUSTOMER SEGMENT(S) CS

- producer of food items who employs demand forecasting to enhance discounting.
- Organizations that want to increase customer happiness must be able to recognize modifications in consumer demand.

6. CUSTOMER CONSTRAINTS CC

- proper power source when using a desktop computer.
- minimal technical understanding required to operate the platform effectively.
- Uninterrupted internet connectivity.

5. AVAILABLE SOLUTIONS AS

- Prediction using neural network is suitable for demand forecasting and it takes more time and memory.
- Another method used in demand forecasting with the support vector machine and also ensemble learning approach.

Explore AS, differentiate

Focus on J&P, tap into BE, understand RC

2. JOBS-TO-BE-DONE / PROBLEMS J&P

- To prevent cash-in-stock situations for retail businesses, where merchandise is kept on hand for longer than anticipated without being sold.
- Supply the precise and accurate daily and weekly demands.
- Reduce waste that would otherwise drive up operational costs
- Having things available at all times increases consumer loyalty and brand reputation.

9. PROBLEM ROOT CAUSE RC

- Inadequate, unreliable, and delayed demand data.
- Food retailers frequently react negatively to even the smallest anomalous shift in demand, which, if left unaddressed, might be taken as an indication that planning and forecasting models need to be altered.

7. BEHAVIOUR BE

- To find out what customers plan to purchase in the future, businesses may undertake surveys of customer intent.
- The traditional forecast model, which often uses previous data on corporate performance criteria to anticipate future value.
- By getting feedback from customers on the best qualities of their products.these feedback helps the company to upgrade their taste and delivery service if required.

Focus on J&P, tap into BE, understand RC

3. TRIGGERS TR

- Other food sellers adopting the AI platform to maximise their profits.
- Social media promotions.
- The platform's free, self-explanatory simplicity that encourages interaction.

4. EMOTIONS: BEFORE / AFTER EM

Before: Doubt ,Ambiguous, stressed, disoriented

After: a precise forecast: Happiness, determined, explicit, calmness.

10. YOUR SOLUTION SL

- Accurately predicts the order for upcoming weeks using the data set or past values.
- Using machine learning model which is a quantitative way to predict future values with past values.

8.CHANNELS OF BEHAVIOUR CH

ONLINE

- A website that is interactive for users and is available at all times to anyone
- Online prediction tools provide for simple, cost-free predictions.