

AI – Smart Food Stall Hygiene & Taste Analysis

## Project Overview

In many local areas, food stalls have become popular due to their affordability and accessibility. However, a growing concern is the **lack of hygiene and declining taste quality**, which affects both public health and customer satisfaction

**AI** is an initiative aimed at using **Artificial Intelligence** and **Data Analysis** to:

* + Assess hygiene and taste levels across local food stalls
  + Provide actionable insights to stall owners
  + And build a cleaner, safer, and tastier food culture in our community.

## 2. Problem Statement

Many food stalls in our locality operate without proper hygiene practices.  
 Customers often face:

* Unclean surroundings
* Poor taste consistency
* Health risks due to unhygienic preparation

There’s no structured system to monitor or guide these stalls toward improvement. Thus, there’s a need for a **smart and automated system** to evaluate and help them enhance their service quality.

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## 3. Objective

To create an **AI-based rating and reporting system** that evaluates **food stall hygiene and taste** using collected data from customers, providing both:

* A **CleanScore** (Hygiene score)
* A **TasteScore** (Taste satisfaction rating)

## 4. Proposed Solution

AI introduces a simple yet effective system:

### **Step 1: Data Collection**

* Customer feedback is collected through **Google Forms** or mobile app.
* Data includes:
  + Stall Name
  + Hygiene Rating (1–5)
  + Taste Rating (1–5)
  + Optional comments
  + Stall images (optional for AI recognition)

### **Step 2: AI Data Analysis**

* **Python and NLP tools** analyze the feedback:
  + Sentiment analysis of comments for taste quality.
  + Average ratings for hygiene and taste.
* Optional image-based AI model detects cleanliness indicators.

### **Step 3: Report Generation**

* The system produces individual reports for each stall:
  + Hygiene and Taste scores.
  + Suggestions for improvement.

### **Step 4: Certification and Display**

* Stalls with high scores receive a **Digital Certificate of Hygiene & Quality** powered by Saradas *AI*.
* Results can be showcased publicly or shared on the *Saradas* website/app.

## 5. Expected Outcomes

* Improved hygiene awareness among food stall owners.
* Data-driven insights to help improve taste and cleanliness.
* Better customer satisfaction and safety.
* Community recognition under the **Saradas** initiative.

## 5. Future Scope

* Develop a **mobile app** for customers to rate stalls live.
* Integrate **real-time image analysis** using AI models.
* Create an **open dashboard** of stall ratings accessible to all.
* Partner with **municipal authorities** to promote verified stalls.

## 6. Team Roles

| **Member** | **Role** |
| --- | --- |
| Sashank Peesapaty | Projcet Lead, Presentation & Design |
| Ganesh | Data Collection & Surveys |
| Harsha Vardhan | Python Development |
| Nithin | Report Generation & Visualization |
| IBM Mentor | AI Guidance & Technical Support |

## 7. About Saradas

**Saradas** is a creative startup founded by *Sashank*, focusing on **designs, wall posters, and innovative ideas** inspired by cinema, culture, and social improvement.

Through **Saradas AI**, the same creativity now extends into **tech-driven social change** — merging *art, community, and technology*.

## 8. About Saradas

Saradas AI combines **AI technology** with **social responsibility** to create a cleaner and healthier food culture.  
 It’s not just about identifying problems — it’s about **solving them with innovation**.

This project stands as a model of how small ideas can grow into community-impacting solutions.

***“Clean food, clear conscience — powered by Saradas AI.”* 🍽️**

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