

## Slide 1: Title Slide

**SafebiteAI — AI Food & Drink Safety & Allergy Risk Scanner**

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## Slide 2: Executive Summary

- AI-powered system for instant food & drink safety checks
- Detects allergens, harmful additives, and contamination risks
- Built with Vertex AI, fast, scalable, mobile-first

## Slide 3: Problem Statement

- Hidden allergens and harmful additives in packaged foods/drinks
- Contamination or expired products often go unnoticed
- Current solutions are manual, slow, and unreliable

## Slide 4: Project Objectives

- Instant product scanning and analysis
- Identify allergens, additives, and contamination using Vertex AI
- Provide clear safety recommendations
- Build scalable backend and mobile-friendly interface

## Slide 5: Target Users

- Health-conscious consumers and individuals with allergies
- Restaurants, cafes, and retailers monitoring product safety
- Parents and caregivers ensuring safe food and drinks

## Slide 6: Project Architecture

SafebiteAI/    backend/ # Node.js + Express + Vertex AI    frontend/ #  
Mobile Web (HTML/CSS/JS)    docs/ # Proposal + Slides PDFs    media/ #  
Demo video + screenshots

Backend: image processing, AI analysis, API endpoints

Frontend: scanning interface, instant feedback

AI: Vertex AI (Gemini models) for risk scoring

## **Slide 7: Key Features**

- Scan food & drinks using images
- Brand & ingredient recognition
- AI-powered allergy & contamination risk detection
- Real-time safety feedback and scoring
- Scalable cloud backend & user-friendly mobile interface

## **Slide 8: Expected Impact**

- Reduce allergic reactions and health risks
- Empower consumers with instant, trustworthy analysis
- Support restaurants, cafes, and retailers in monitoring safety

## **Slide 9: Sustainability & Scalability**

- Modular AI components for future updates and expansion
- Cloud backend ensures high availability and scaling
- Mobile-first design guarantees accessibility

## **Slide 10: Deliverables**

- Mobile Web frontend (HTML/CSS/JS)
- Node.js backend with Vertex AI integration
- Project documentation: Proposal PDF, Slides PDF, Demo video
- Screenshots showing product scanning and results

## **Slide 11: References**

- Google Vertex AI documentation
- Food safety & allergen databases
- Best practices for mobile AI solutions