

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/Javascript)
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