

Contents of this template

You can delete this slide when you're done editing the presentation

Fonts	To view this template correctly in PowerPoint, download and install the fonts we used	
Used and alternative resources	An assortment of graphic resources that are suitable for use in this presentation	
Thanks slide	You must keep it so that proper credits for our design are given	
Colors	All the colors used in this presentation	
Icons and infographic resources	These can be used in the template, and their size and color can be edited	
Editable presentation theme	You can edit the master slides easily. For more info, click here	

For more info: SLIDESGO | BLOG | FAQs

You can visit our sister projects:
FREEPIK | FLATICON | STORYSET | WEPIK | VIDEVO

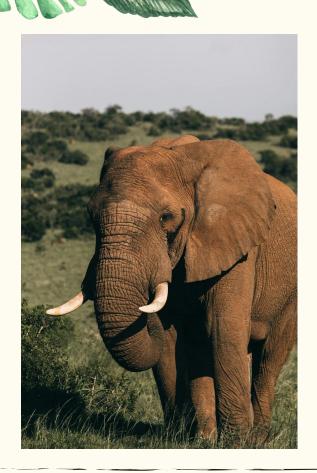
Table of contents

01.	Problem Background	05.	System Architecture Design
02.	Problem Statement	06.	Challenges Faced
03.	Project Aim	07.	Changes from initial report
04.	Demo Video	08.	Future Enhancements and
			scalability

01. Problem Background

Battles between people and elephants have grown to be a serious issue in Sri Lanka, especially in rural areas where these incidents can result in fatal accidents, losses in crops, and destruction of property. These incidents show how urgently efficient mitigation techniques are needed to protect human lives and animal welfare.





02. Problem Statement

- Battles between humans and elephants put lives and security at risk in rural areas of Sri Lanka.
- 2. Most of the elephant ecosystems are near human populations, which puts people's safety and assets in danger.
- Innovative approaches must be found immediately to encourage the existence of both humans and elephants.





05. System Architecture Design.

Logic Tier - Deep Learning Model for Elephant Detection

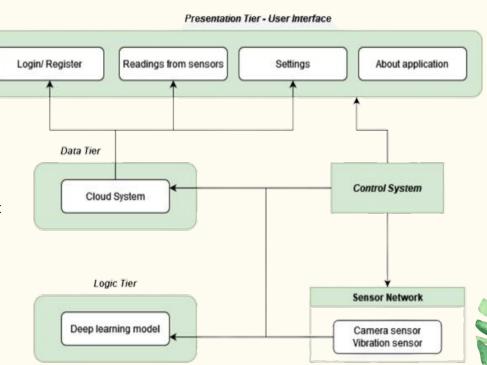
- Utilizes TensorFlow Lite for efficient processing
- Analyzes sensor data to identify elephant presence

Data Tier - Firebase Cloud Server for Storing Data

- Securely stores sensor readings and application data
- Real-time synchronization for instant access and updates

Presentation Tier - User Interface (UI)

- Login/Register: Application access
- Sensor Readings: Real-time sensor data display
- Settings: User preferences and account customization
- About Application: Overview of Rumble application





Challenges Faced	Accomplishments
Real-time alerts	Elephant detection
Power consumption optimization	Image capturing
Real-time data display	User login
System scalability	Cloud data storage
User-friendly dashboard	

07. Changes from Initial Report

Functionalities

Achieved

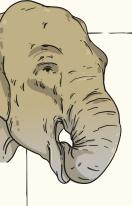
- Elephant detection
- Image capturing
- Deep learning processing
- User login
- Cloud data storage

Partially Done/Not Done

- Real-time alerts
- Low power optimization
- Real-time data display
- Scalability
- User-friendly dashboard

System Architecture & Design

- Logic and Data Tiers implemented
- UI partially developed; core pages in place



08. Future Enhancements and scalability

Future Enhancements



Real-time alerts



Power optimization



Real-time data display and Dashboard

Scalability



Future plan to enable system for multiple locations



Thanks!

Do you have any questions?

CREDITS: This presentation template was created by $\underline{\textbf{Slidesgo}}$, and includes icons by $\underline{\textbf{Flaticon}}$, and infographics & images by $\underline{\textbf{Freepik}}$

