

# Digi Scale – A smart scale in the pocket

## Introduction

The Digi Scale is an application that has a huge impact on the common man. The application is powered by multiple AI models which will be used to detect the measurements, shape, material, volume, and weight of the stones.

In current market conditions, people are duped by multiple methods Digi Scale provides an easy solution for the common man to understand the worth and other details of his stone. Due to the high error rate in the manual weighing mechanism huge loss of product is happening during the middleman sales. Once developed our AI can predict the cost using real-time market data. Also, after enough training, we can use this to count and weigh a bundle of stones and put a price not as a whole weight it will calculate individually and provide a reference point for bargaining

## Modules

1. Mobile Application
2. AI model
3. API for AI interfacing

## Specifications

### Mobile Application

1. Login
2. Scanner
3. Identifying the stone and providing top 3 suggestions
4. Counting the stone
5. Calculating estimated weight
6. Calculating price

### AI Model

1. Data collection – Collecting the sample data of all the stones which is to be recognized by the application
2. Data Analysis – Doing analytics to understand the features and other parameters when we create a model

- a. Video processing
  - b. Image processing
  - c. Object Recognition
  - d. Statistical analytics
3. Model Design
4. Testing
5. Model Optimization

#### API for AI

1. Developing API for integrating with Mobile app

### Cost

No	Taks	Cost in lakhs – One time	Recurring Cost in lakhs per month– Hosting and maintenance
1	AI model	74	1
2	API for AI	1	0.4
3	Mobile Application	5	0 (platform charges applicable e.g., play store and apple store)
	<b>Total</b>	<b>80</b>	<b>1.4</b>

### Timeline

- AI Model - 8 Months
- AI API – 2 Weeks
- Mobile Application – 12 weeks