

# Project Report – ROI Tracker Dashboard

This project is a **Return on Investment (ROI) Tracker** built using **Python**, **Tkinter**, and **Matplotlib**. The main purpose of this project is to help users calculate how much their investments will grow over time and visually understand the performance through charts and tables. It is designed to be simple, user-friendly, and easy to use for beginners learning financial analysis and GUI development.

## What This Project Does

The ROI Tracker allows users to:

- Select an investment type (SIP, Mutual Fund, Stock, Gold, Silver)
- Enter the initial investment amount
- Enter the duration (in years)
- Automatically calculate the final value and ROI %
- Get a performance rating (Poor, Good, Excellent)
- View all added investments in a table
- See all results in a separate dashboard with multiple charts

## How the Project Works

### 1. Input Section

The user enters investment type, amount, and years. The code checks if the inputs are valid.

### 2. Return Calculation

Based on predefined ROI rates, the program calculates:

- Final value
- Total ROI %
- Performance rating

### 3. Storing Data

Every investment is stored in a list so the user can add multiple entries.

### 4. Table Display

A Treeview table shows all investments clearly with serial numbers, values, ROI, and rating.

## 5. Dashboard Charts

Clicking “Show Charts Dashboard” opens a new window with:

- Bar Chart (ROI comparison)
- Line Chart (Growth trend)
- Pie Chart (Investment distribution)
- Scatter Plot (ROI vs Final Value)

### Why This Project Is Useful

This project helps users visually understand:

- Which investments give better returns
- How money grows over the years
- How their investments are distributed
- ROI performance in a simple, clear way

It's also a great demonstration of combining **Python logic**, **Tkinter GUI**, and **Matplotlib charts** into one complete practical application.