

AI-Powered ROI Calculator - Developer Requirements

Objective

Build a simple ROI Calculator that estimates annual savings, productivity gains, ROI percentage, and payback period for organizations evaluating workforce productivity software.

User Inputs

Required Fields

1. Number of Employees
 2. Type: Number
 3. Example: 200
 4. Average Monthly Salary Per Employee (₹)
 5. Type: Number
 6. Example: 50000
 7. Average Lost Time Per Employee Per Day (Minutes)
 8. Type: Number
 9. Example: 60
 10. Industry
 11. Dropdown:
 - IT
 - BPO
 - Healthcare
 - Manufacturing
 - Retail
 - Other
 12. Work Email
 13. Type: Email
-

System Constants

Working Days Per Month = 22

Working Hours Per Day = 8

Working Months Per Year = 12

Full Time Employee Hours Per Year = 2080

Price Per User Per Month = ₹200

Industry Productivity Improvement Assumptions

IT = 12%

BPO = 15%

Healthcare = 10%

Manufacturing = 8%

Retail = 9%

Other = 10%

Calculation Logic

Step 1: Hourly Employee Cost

$\text{hourlyCost} = \text{averageMonthlySalary} / (22 \times 8)$

Example:

50000 / 176

= ₹284.09

Step 2: Annual Lost Hours

$\text{annualLostHours} = \text{employees} \times (\text{lostMinutesPerDay} / 60) \times 22 \times 12$

Example:

$200 \times 1 \times 22 \times 12$

= 52,800 Hours

Step 3: Improvement Percentage

improvementPercentage = industry benchmark value

Example:

IT = 12%

improvementPercentage = 0.12

Step 4: Recoverable Hours

recoverableHours = annualLostHours × improvementPercentage

Example:

52,800 × 0.12

= 6,336 Hours

Step 5: Annual Productivity Savings

annualSavings = recoverableHours × hourlyCost

Example:

6,336 × 284.09

= ₹17,99,000

Step 6: Equivalent Employees Added

equivalentEmployees = recoverableHours ÷ 2080

Example:

6,336 ÷ 2080

= 3.04 Employees

Step 7: Annual Software Cost

$\text{annualSoftwareCost} = \text{employees} \times 200 \times 12$

Example:

$200 \times 200 \times 12$

$= ₹4,80,000$

Step 8: ROI Percentage

$\text{ROI} = ((\text{annualSavings} - \text{annualSoftwareCost}) / \text{annualSoftwareCost}) \times 100$

Example:

$(17,99,000 - 4,80,000) / 4,80,000$

$\times 100$

$= 274.8\%$

Step 9: Payback Period

$\text{monthlySavings} = \text{annualSavings} \div 12$

$\text{paybackMonths} = \text{annualSoftwareCost} \div \text{monthlySavings}$

Example:

$17,99,000 \div 12$

$= ₹149,916$

$4,80,000 \div 149,916$

$= 3.2 \text{ Months}$

Results Screen

Display the following cards:

Card 1: Potential Annual Savings ₹17,99,000

Card 2: Estimated ROI 275%

Card 3: Recovered Productive Hours 6,336 Hours

Card 4: Equivalent Workforce Added 3 Employees

Card 5: Payback Period 3.2 Months

AI Insight Section

Send calculated results to OpenAI API.

Prompt:

Act as a Workforce Productivity Consultant.

Inputs: Employees: {employees} Industry: {industry}

Results: Annual Savings: {annualSavings} Recovered Hours: {recoverableHours} Equivalent Employees: {equivalentEmployees} ROI: {roi}

Generate: 1. Executive Summary 2. Productivity Opportunity 3. Business Impact 4. Recommended Next Step

Maximum 100 words.

Lead Capture

Before showing results:

Required:

- Work Email

Store:

- Email
- Employees
- Industry
- Salary
- Lost Time

Push to CRM and then display ROI report.

Success Message

"Based on your inputs, your organization could recover ₹XX annually, save XXXX productive hours, and achieve an estimated ROI of XXX% within X months."