

# ✦ Emergency fund predictor

Done by Team Lokey





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01

# PROBLEM VS. SOLUTION

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**Employees aged over 50 years are the fastest growing demographic**

**By 2030:**

**55%**

increase in employees aged over 50 years



Account for **40%**



of the workforce



**Cost and productivity loss due to ill health**

Doubling of medical costs per employee:

**2016**



**\$946**

**2030**



**\$1,973**

Productivity loss due to sickness absenteeism:

**\$3.3 billion**

Approximately 1% of GDP

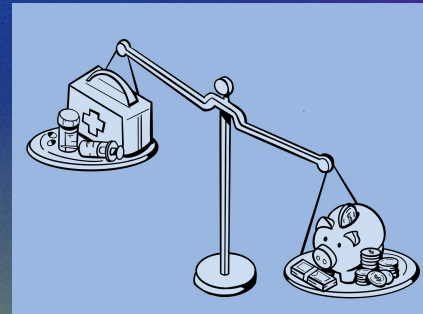




# FINANCIAL INCLUSION

20  
XX

- Financially secure retirement
  - Empowering ageing population
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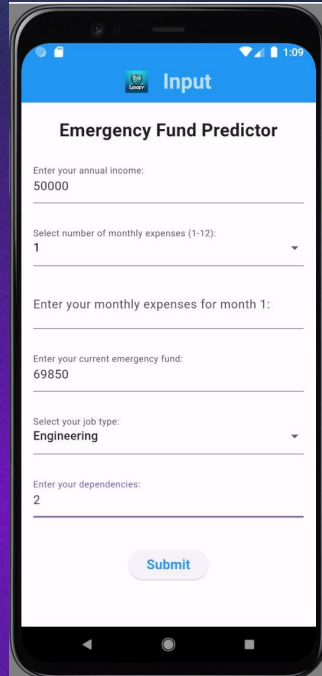






# OUR SOLUTION

- Mobile based system
- Machine learning to recommend a suitable emergency fund



The image shows a smartphone screen with the 'Emergency Fund Predictor' app. The app has a blue header with the title 'Input' and a small icon. Below the header, there are several input fields: 'Enter your annual income:' with the value '50000', 'Select number of monthly expenses (1-12):' with a dropdown menu showing '1', 'Enter your monthly expenses for month 1:', 'Enter your current emergency fund:' with the value '69850', 'Select your job type:' with a dropdown menu showing 'Engineering', and 'Enter your dependencies:' with the value '2'. At the bottom, there is a blue 'Submit' button.

A	B	C	D	E	F	G	H
Income (\$)	Monthly Ex	Dependen	Job Stabilit	Lifestyle C	Recommended Emergency Fund (\$)		
17795	11331	3	7	9	52122.6		
2860	1535.018	1	4	10	6754.08		
7390	3973.328	2	9	6	17879.98		
13964	8721.43	2	1	10	35757.86		
13284	11846.73	4	8	3	48571.58		
8265	4712.142	5	7	8	21204.64		
18850	9554.395	3	2	8	38217.58		
6426	5175.152	1	8	2	20700.61		
16423	13512.27	4	1	6	49995.41		
13363	8532.566	5	9	7	39249.8		
18023	12361.43	4	9	2	50681.85		



02

# OUR PRODUCT

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# TECH STACK

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# Emergency Fund Predictor Model

## Random Forest Regressor

1. Non-linear Relationships
2. Feature Interactions
3. Robustness to Outliers
4. Feature Importance
5. Performance



# Emergency Fund Database

## NoSQL

1. More efficient for larger data
2. Horizontal scalability
3. Flexible for storing data







# 03

USER  
JOURNEY

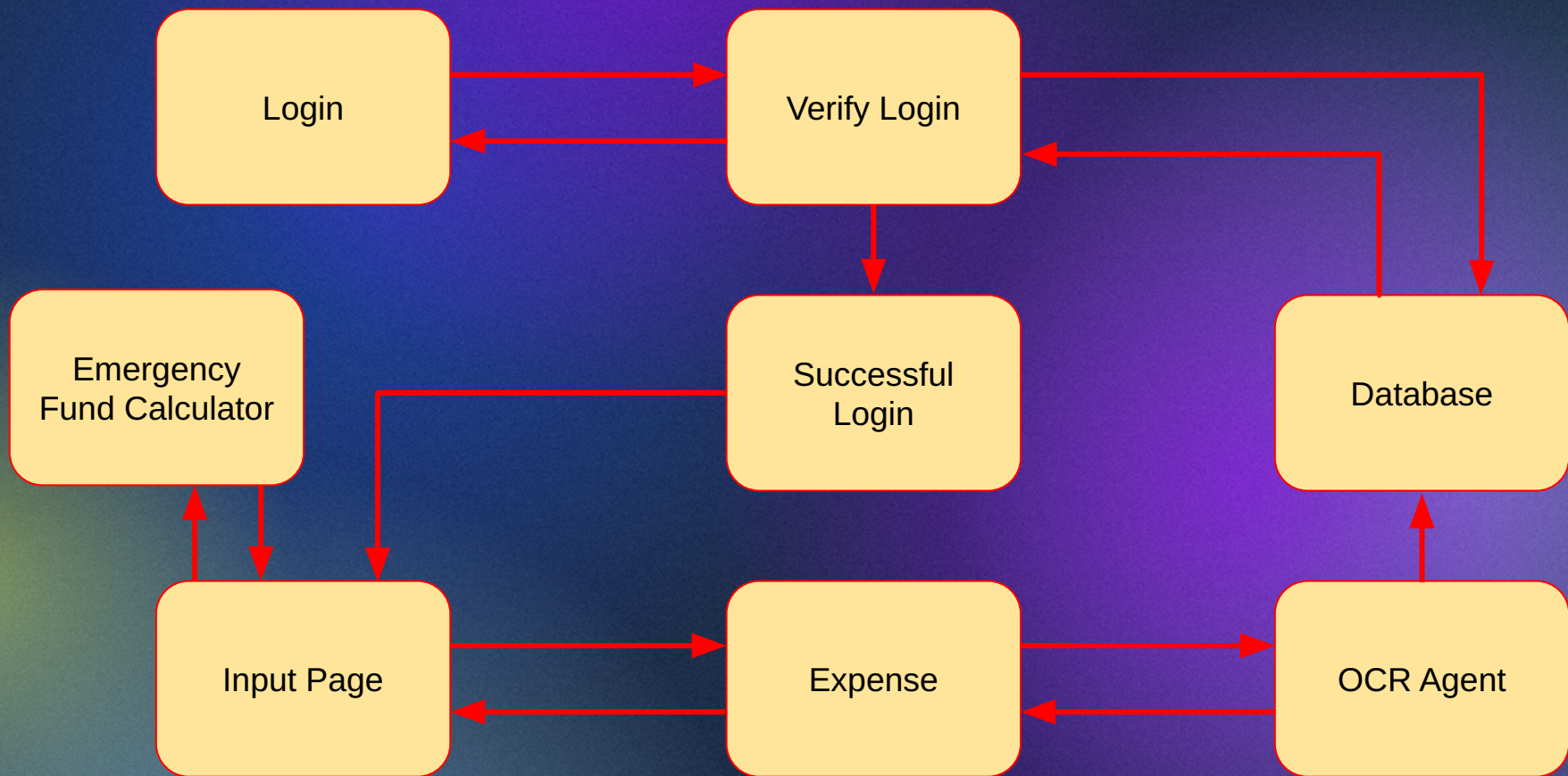
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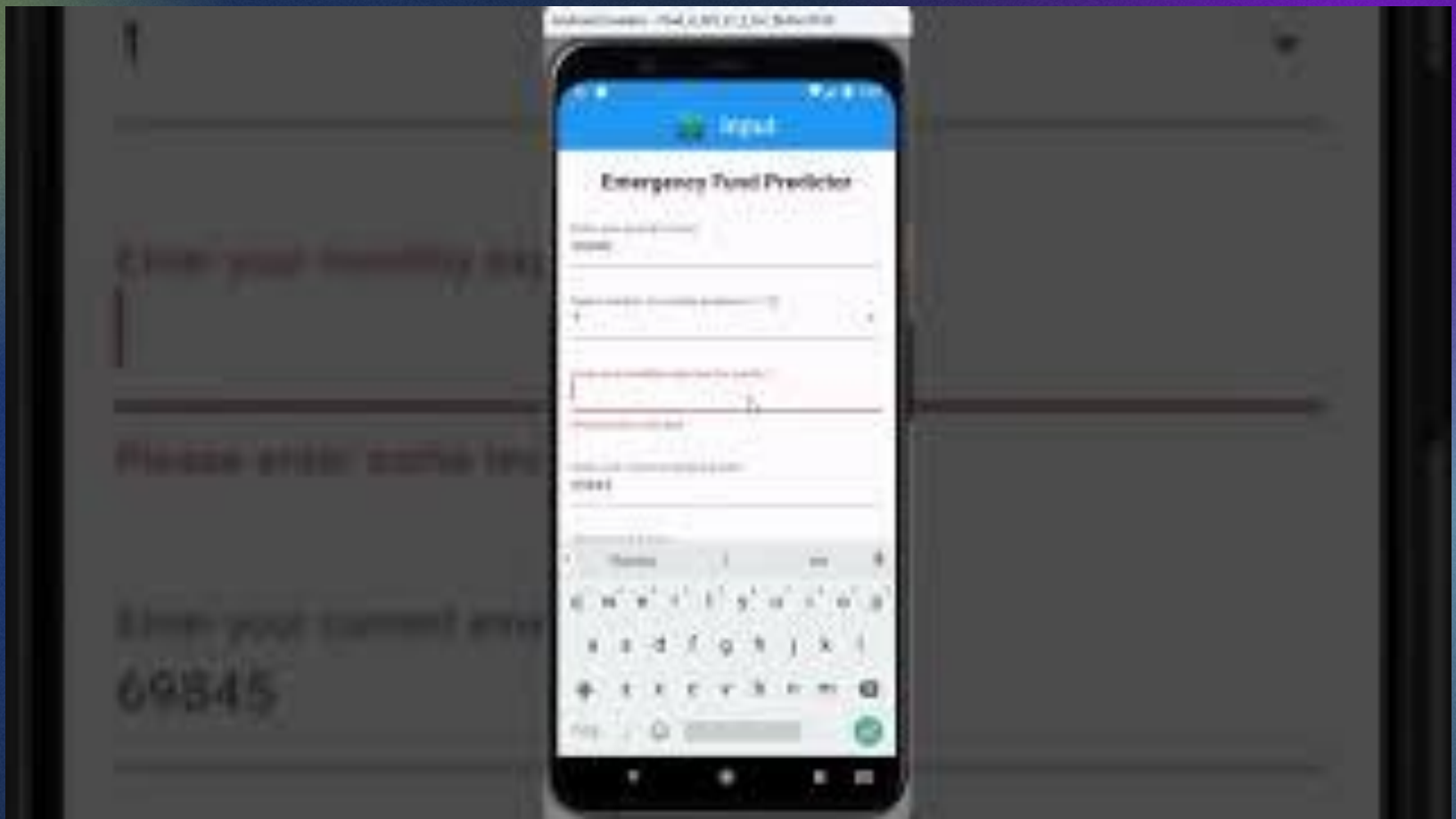




DEMO







[https://youtube.com/shorts/s\\_aCjiSOJ6Q?feature=share](https://youtube.com/shorts/s_aCjiSOJ6Q?feature=share)  
<https://github.com/MustafajP/LOKEY.git>



# 04

## Future Plans

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# TIMELINE

WEEK 01 & 02

MONTH 01

MONTH 02



Finish  
Prototyping



User  
Acquisition



Improving  
the Model







# THANKS!

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