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Saudi Focused Financial Advisor

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Agenda

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Introduction

- **Financial planning** is the process of managing your finances to achieve both short-term and long-term goals, ensuring financial stability and growth.
- **Salary allocation** is essential for individuals to achieve financial stability and long-term goals.
- **Lifestyle inflation:** The humans tend to increase their spending as their income grows.

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Decision-Making Process

1

Identify Problem

The app identifies financial challenges based on the user's historical data.

2

Gather Information

The app collects all necessary financial information from the user, including historical spending, income, debts, investments, and savings patterns.

3

Develop Solutions

Using the gathered data, the app generates multiple financial strategies or solutions.

4

Select Best Solution

The app uses predictive modeling and simulations to rank the possible solutions and recommends the best one to the user.

5

Implement Solution

The selected solution is then put into action.

6

Evaluate and Adjust

The app continuously monitors the user's financial progress over time.

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Goals and Objectives

Goal: To develop an IDSS that helps Saudi users allocate their salary efficiently, balancing between savings, investments, and expenses, and achieving specific financial goals.

Objectives:

1. Provide users with personalized salary allocation strategies based on their financial profile.
2. Utilize machine learning algorithms (Random Forest) to make data-driven, optimal salary allocation decisions.

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Methodologies

Approach: Data-driven recommendations using financial inputs (salary, expenses, savings, etc.).

Random Forest: Predict optimal salary allocations (savings, investments, expenses).

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PEAS and Agent

- **Performance measure:** Growth of savings and investments
- **Environment:** Website
- **Sensors:** Keyboard, Mouse, and Screen
- **Actuators:** Screen

- **Agent :** Goal-Based Agent

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Programing and Simulation Tools

Programing Tools

- Python
- React
- Scikit-Learn
- Pandas & NumPy

Simulation Tools

- VScode

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Project Plan

1. Data Collection

- Gather data through surveys by Saudi citizens.
- Preprocess the data for model training.

2. Model Development

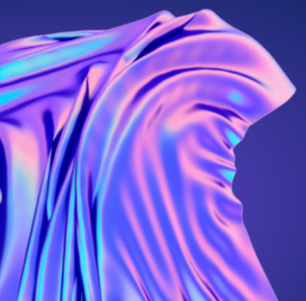
- Train a Random Forest model using the collected financial data.
- Validate the model using cross-validation.

3. System Integration

- Develop the front-end interface where users input their salary, expenses, and goals.
- Connect the back-end with the Random Forest model to deliver personalized financial recommendations.

4. Evaluation and Testing:

- Evaluate the system by comparing its recommendations to industry benchmarks.
- Collect feedback from users to refine the salary allocation model.



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Expected Deliverables

A salary allocation system that consists of:

1. Random Forest Model: Trained for optimized salary allocation.
2. User Interface: Simple, intuitive, with documentation.

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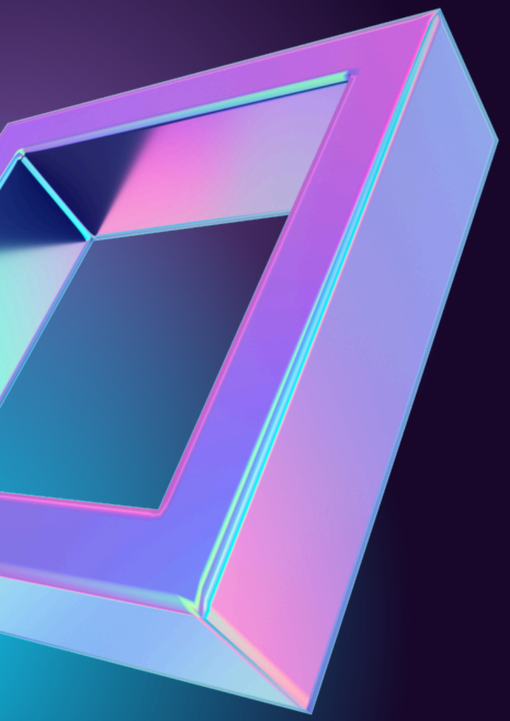
Conclusion

- Optimizing salary allocation between savings, investments, and expenses.
- Utilizes Random Forest for data-driven decision-making.
- Delivers a user-friendly interface.



Thank You