

Rough SYNOPSIS: Personal Financial AI Advisor

Project Title:

AI-Powered Personal Financial Advisor

Objective:

The goal of this project is to develop an AI-based financial advisor that helps users manage their finances by providing budgeting insights, savings plans, investment recommendations, and financial advice. The system is designed for two user categories:

1. **Students** – Focus on budgeting, savings, and scholarships (excluding loans).
2. **Adults** – Includes investment planning, credit score analysis, and loan management.

Features:

For Students:

- **Income & Expense Tracking** – Helps students track their monthly income (e.g., part-time jobs, allowances) and spending.
- **Budgeting & Saving Advice** – Provides personalized saving tips based on spending habits.
- **Scholarships & Grants Info** – Recommends available scholarships and grants based on academic background.
- **AI Chatbot for Financial Advice** – Answers queries about financial planning for students.

For Adults:

- **Expense & Budgeting Analysis** – Helps users track expenses and optimize spending.
- **Investment Recommendations** – Suggests stocks, mutual funds, or savings plans based on risk profile.
- **Loan Management & Credit Score Analysis** – Evaluates loan eligibility, EMI calculation, and credit score impact.
- **AI Chatbot for Financial Queries** – Assists with investment strategies, tax planning, and financial queries.

Technologies Used:

- **Frontend:** React.js (for UI/UX)
- **Backend:** Node.js & FastAPI (for financial data processing & AI)
- **Machine Learning:** Scikit-learn, PyTorch (for financial predictions)
- **APIs & Data Sources:** Yahoo Finance API (Stock Data), Alpha Vantage API (Financial Market Data), Lending Club Loan Dataset (Loans & Credit Scores)
- **Authentication:** Firebase/Auth0 (User Login & Security)
- **Deployment:** Vercel (Frontend), AWS/Heroku (Backend)

Expected Outcome:

- Users get real-time financial insights tailored to their needs.
- Students learn smart budgeting & saving habits without loans.

- Adults receive personalized investment & loan management recommendations.
- AI chatbot provides instant financial guidance.
- A strong full-stack + AI project for portfolios & placements.

Conclusion:

This project will help users manage their finances efficiently with the power of AI and automation. By implementing machine learning, real-time APIs, and AI-driven recommendations, this financial assistant will be a valuable tool for students and working professionals alike.