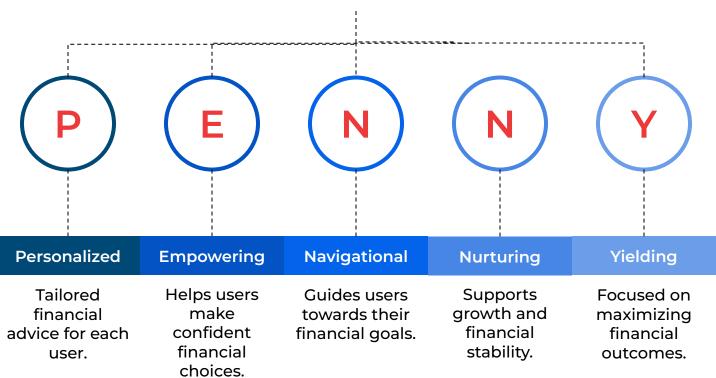


**Empowering Your Finances with GenAI** 

**HackPrinceton 2024** 

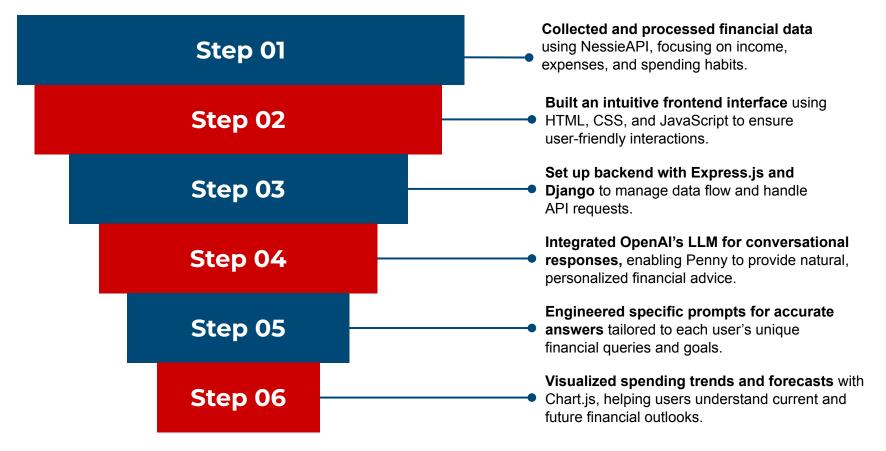
#### **Team**





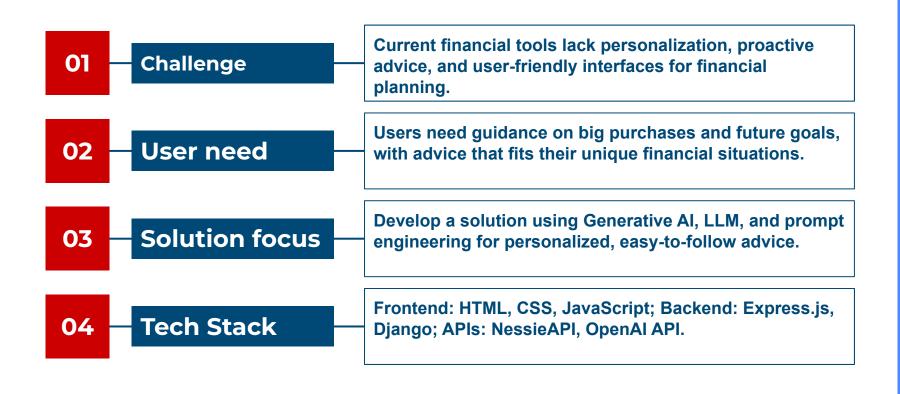


## **Project Workflow**





# **Situation**







### Goal

Build **Penny**, an Al-powered advisor offering customized advice to help users make informed financial choices.

# Task



### **Objectives**

Enable Penny to use **Generative Al and LLM** to understand user queries, provide relevant responses, and forecast outcomes.



### **Technologies**

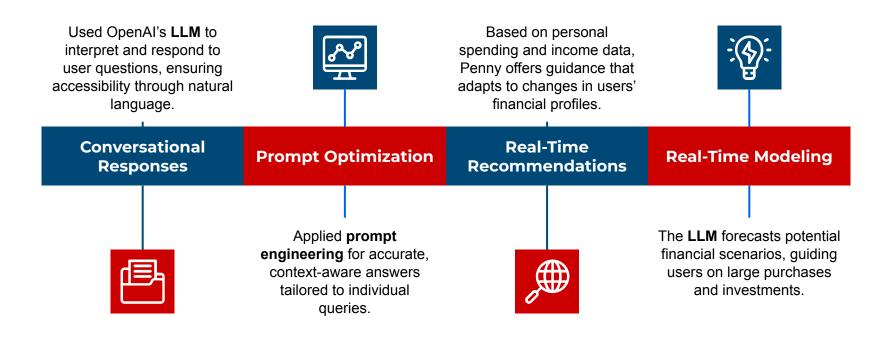
#### **Data Processing:**

Python web-crawling, data loading

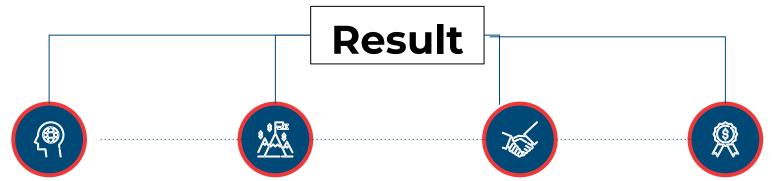
#### **Data Visualization:**

Chart.js for clear financial trend displays.

### Action







### **Tailored Guidance**

Real-time advice specific to each user's financial situation, providing clarity and control over finances.

### **Proactive Planning**

Scenario-based insights support users in reaching goals like saving for purchases or investments.

### **User-friendly**

Generative AI makes complex financial advice approachable, ensuring users feel supported in planning decisions.

### **Data-Driven Confidence**

Users gain confidence in their financial choices, with data-backed advice that aligns with their goals and financial behaviors.

### **Use case Scenario**

#### User

Can I afford to buy a car costing \$30,000 with a \$5,000 down payment, and how will it impact my savings?

### **Penny**

- **1. Affordability Analysis:** Based on your current income, expenses, and savings, the monthly payment of \$425 for a 60-month loan would reduce your savings by \$425 each month. This may limit your ability to allocate funds toward other goals.
- **2. Timing Recommendation:** To optimize your financial position, consider delaying the purchase by a few months to build additional savings. Alternatively, adjusting expenses temporarily could help you cover the car payment without significantly impacting your savings.
- **3. Additional Income Opportunities:** To offset the financial impact, you might explore short-term investment options or freelance work. This additional income could balance the monthly payment and support other financial goals.
- **4. Long-Term Impact:** If you proceed now, this purchase will affect your long-term savings rate. Adjusting your monthly budget slightly could help you stay on track with both your car purchase and other financial objectives.