Explanation of the Dashboard Components

1. **Key Metrics Section**:

   o Displays the total portfolio value, average APR, APY, beta, and volatility, dynamically calculated based on the portfolio data.

2. **Portfolio Allocation Pie Chart**:

   o Shows the initial allocation of the portfolio in a pie chart format. It provides a quick visual of asset distribution.

3. **Stress Test Controls**:

   o Sliders let you adjust the price drop percentage for each type of asset (BTC, ETH, DeFi, and Stablecoin). Adjusting these sliders will dynamically change the stress test outcome.

4. **Stress Test Outcome Chart**:

   o Displays a bar chart comparing the initial allocation values with the values after the stress test, allowing you to see the impact of each stress scenario on individual assets and the overall portfolio.

Running the Dashboard

1. Save this code to a Python file, e.g., portfolio_dashboard.py.

2. Run it in your terminal with the command:

bash

Copy code

python portfolio_dashboard.py

3. Open the provided local URL (typically http://127.0.0.1:8050) in a web browser to view the dashboard.

This dashboard will help you visualize the impact of stress scenarios on your portfolio while tracking key metrics in real time. You can adjust parameters to see how different market conditions might affect your holdings.