Expected Outcomes of the Project

Component 1

Portfolio Management System

* **Risk Mitigation**: **By recommending a diversified portfolio**, the agent helps spread the risk across different asset classes, sectors, and geographies. This reduces the impact of poor performance of any single investment on the overall portfolio.
* **Optimized Returns**: Proper **asset allocation** based on the investor’s risk tolerance and financial goals can help optimize returns. The agent continually adjusts the portfolio to maintain the desired level of risk and return.
* **Stress-Free Investing**: **Automated rebalancing** ensures the portfolio remains aligned with the investor’s goals and risk tolerance without requiring constant monitoring and manual adjustments.

Component 2

Market Trend analysis Agent

* + **Proactive Investing**: By staying updated with market trends and news, the agent helps investors make proactive decisions, such as capitalizing on emerging opportunities or avoiding potential downturns.
  + **Data-Driven Insights**: It provides insights based on real-time data and trends, allowing investors to react swiftly to market changes.
  + **Enhanced Strategy**: Investors can refine their investment strategies based on the latest market information and forecasts provided by the agent.

Component 3

Stock and Fund Analysis Agent

* **Informed Decisions**: The agent provides detailed analysis on different investment options, including historical performance, risk factors, and future potential, enabling investors to make informed decisions.
* **Time-Saving**: It scans vast amounts of data and financial reports, saving the investor substantial time and effort that would be required for manual analysis.
* **Performance Enhancement**: By identifying high-potential stocks and funds, the agent can help improve the overall performance of the investor’s portfolio.

Component 4

Podcast Agent with Automated Knowledge base creation

* **Information Extraction**: Identifies and extracts key pieces of advice, strategies, and tips from transcriptions.
* **Knowledge Graph**: Creates a structured knowledge graph linking related concepts and strategies.
* **Interactive Search**: Allows users to query the knowledge base for specific information

Component 5

Fact Checking System

* **Claim Extraction Agent**: Identifies and extracts claims and statements from podcast transcriptions.
* **Data Source Integration Agent**: Integrates with reliable financial data sources (e.g., stock market data, financial reports, regulatory filings).
* **Fact-Checking Agent**: Compares extracted claims against verified data sources to check their accuracy.
* **Correction Suggestion Agent**: Provides corrections or clarifications for inaccurate claims.
* **Verification Report Agent**: Generates detailed reports on the verification process and results.

Component 6

Financial Podcast Credibility Scoring System

* **Historical Claim Verification Agent**: Verifies historical claims from past episodes.
* **Credibility Scoring Agent**: Assigns credibility scores to podcasts based on the accuracy of verified claims.
* **Listener Feedback Agent**: Collects and integrates listener feedback on the accuracy and reliability of information.
* **Trend Analysis Agent**: Analyses trends in the accuracy of information over time.
* **Credibility Dashboard**: Provides a dashboard displaying credibility scores and trends for different podcasts.