

RoboAdvisor

Project Goal

The main purpose of our app is to enable a broad range of people to invest in financial markets by providing an easy to use platform where they can interact with a chatbot agent to automate investment analysis and portfolio management. Investors are given an easy to use platform where they are given personalized recommendations and actionable solutions based on their preferences.

We are developing the app because we want to make investing in financial markets accessible to many people by providing financial services at a lower cost. We want to help people achieve their investment goals by making it easy for them to make decisions through relevant recommendations.

Furthermore, we want to contribute to the field of algorithmic trading by integrating artificial intelligence with financial services. We want to gain valuable insight in the field and help researchers explore the impact on artificial intelligence on investors.

Problem Statement

The problem that our app solves is that it makes it easy for non professionals to participate in financial markets by filling the gap in knowledge and skill. Users interact with chatbot agents to set preferences, manage portfolios, and receive recommendations. In addition, our app makes financial services more accessible by providing a low cost alternative to traditional services.

Furthermore, our app provides investor profiles with deep personalization using artificial intelligence models. This allows for more tailored recommendations based on user preferences, and allows our chatbot to adapt

to each user.

Feasibility Check

Our app is feasible if we limit our scope to a minimum viable product. Given our time, skills, and resources, we will use agile methodology for our project. This is suited for our project because it allows us to develop our app iteratively. We can focus on developing core features first before proceeding to advanced features. The core features include developing the web platform and basic financial services, while developing AI features at a later stage. This allows us to build the app from the ground-up and implement AI as we progress.

However, generating accurate forecasting and recommendations can be challenging because of the complexity of implementing ML models from development phase to testing and validation of accuracy. Moreover, our data may be limited to a small sample of users and may not be enough to accurately predict the preferences of diverse users. In order to improve our models, we need to learn real user interactions over time. Furthermore, the strict regulations in the finance industry may provide another limitation of our app. We may have to comply with legal requirements before we can deploy our app as a commercial product.

Stakeholders

1. Retail Investors – Non professionals who want to invest in the stock market.
2. Financial Advisors – Professionals who look for alternative platforms to manage their portfolio.
3. Application Developers – Developers can benefit from our app by using our APIs to develop financial services.
4. Researchers – Researchers in AI benefit from our app because it allows

them to test and improve machine learning models.

5. Financial Data Providers – Companies like Yahoo Finance that supply essential market data, enabling the app to perform accurate analysis and forecasting.
6. Regulatory Bodies – External authorities that ensure the app complies with financial and data privacy laws.

Project Manager

For our project, we chose Marc Louse Goco to be our project manager because of his experience in project management. He has participated in many projects and has contributed to the success of organizing school events. He shows characteristics of a project manager such as leadership qualities, good communication skills, and the ability to coordinate team members. He is also well organized and ensures that projects are completed on time and within scope.