CS491 - Fall 2024 - Project Information

Form

***Please ﬁll the form for your CS491 Design project.***

***It is suﬃcient for one team member from each team to ﬁll out this form.***

\* Required

Email \*

Your email

mehmetonur@ug.bilkent.edu.tr

Name of the Project \*

*Aim for a short, unambiguous, and memorable title for your project/team. Your project name should reﬂect what makes your project unique.*

Your answer

InvestmentHelper-AI

One paragraph description of the project \*

*You should write an high-level summary of your project. It must be very-well written and checked many times. Avoid going deep into details or background of the problem you volunteer to solve. Remember the elevator speech and pitching concept, use it.*

Your answer The essence of the project is to provide users with a comprehensive finance companion. The companion will include a chatbot, that the users can interact with and ask comparative questions about the past and current state of the market. Also, through the chatbot, the users can enter the context of the news that they want to be notified about in real-time (e.g “Tell me when interest rate changes.”), then, financial news from the web will be analyzed and relevant notifications will be sent to users when detected. The live analysis of financial news, that will allow us to notify the users such that the users will be able to have an initiative regarding their financial portfolio, will be established through advanced Time-Dependent Knowledge Graph based RAG pipelines utilizing LLMs. The news that will be used will be scraped from the web, from reliable sources of finance. The companion will also provide stock predictions based on sentiment analysis of financial news and past numerical data, recognize current trends based on current and past context of the market, and allow technical financial analysis on graphical representation of various stocks. The tool will utilize artificial intelligence for the functionalities defined above.

Supervisor Name and Lastname: \*

Your answer Özgür Salih Öğüz

Innovation Expert Name and Lastname: \*

Your answer Murat Kalender

The URL of the Project Web Page: \*

Your answer

<https://investmenthelper-ai.github.io/officialwebsite/index.html>

Team Member 1 StudentID,Name,Surname: \*

*Please****,****use****,comma,****as****,separator***

Your answer 22102293, Mehmet Onur, Özdemir

Team Member 2 StudentID,Name,Surname: \*

*Please****,****use****,comma,****as****,separator***

Your answer 22102512, Hakan, Muluk

Team Member 3 StudentID,Name,Surname: \*

*Please****,****use****,comma,****as****,separator***

Your answer 22102436, Emir Şahin, Dilli

Team Member 4 StudentID,Name,Surname: \*

*Please****,****use****,comma,****as****,separator.***

Your answer

Team Member 5 StudentID,Name,Surname: \*

*Please****,****use****,comma,****as****,separator***

Your answer