Ai Use Case: concept of the sports Results Chatbot

GoalBuddy – Your personalized football assistant

Abstract

GoalBuddy is an application designed to simplify tracking football scores, rankings of different competitions and top scorer performances. Developed as part of our AI use case course, this application uses modern technologies to provide a smooth and intuitive user experience.

Concept and Features

The idea behind our application is to provide football fans with a simple and effective way to access crucial information about their favorite teams and competitions. Through a friendly user interface, users can interact with the app by asking natural language questions, such as "What is the score of the last Bundesliga match?" or “Who is the top scorer in Ligue 1?”.

Technical Approach

The architecture of our application is based on several key technologies:

1. **Frontend in React**: The user interface of our application is built using React, a popular JavaScript library for creating dynamic user interfaces. This part of the application is hosted on Firebase, providing fast and reliable distribution.
2. **Backend in Node.js**: The backend server, developed in Node.js, manages user requests and communicates with different APIs to retrieve relevant data. This server is deployed on Heroku, allowing for easy scaling and simplified management.
3. **Wit.ai for Natural Language Processing (NLP)**: To understand user queries, our application uses Wit.ai, an NLP platform. This integration allows the application to interpret questions formulated in natural language and provide precise answers.
4. **football-data.org API**: Football data, such as match scores, league rankings and player performances, is retrieved via the football-data.org API. This API provides up-to-date information on a variety of competitions and teams.

Development and Optimization

The development of our application involved several key steps, including setting up development environments, integrating APIs, development, and deployment to cloud platforms. After each phase, rigorous testing was carried out to ensure the reliability and accuracy of the application.

In response to user and tutor feedback, optimizations have been made to improve performance and user experience. For example, we adjusted the natural language processing filters to better understand complex queries, we adjusted our CSS file more particularly the media queries for the ergonomics of the site in different platforms and we optimized the API calls to reduce times Answer.

Conclusion

Our application, which we named GoalBuddy, is the result of a collaborative and methodical effort aimed at creating a useful application for football fans. By combining modern technologies and a user-centric approach, we have developed a solution capable of meeting the information needs of football fans quickly and accurately. We hope you enjoy using GoalBuddy as much as we enjoyed developing it.