

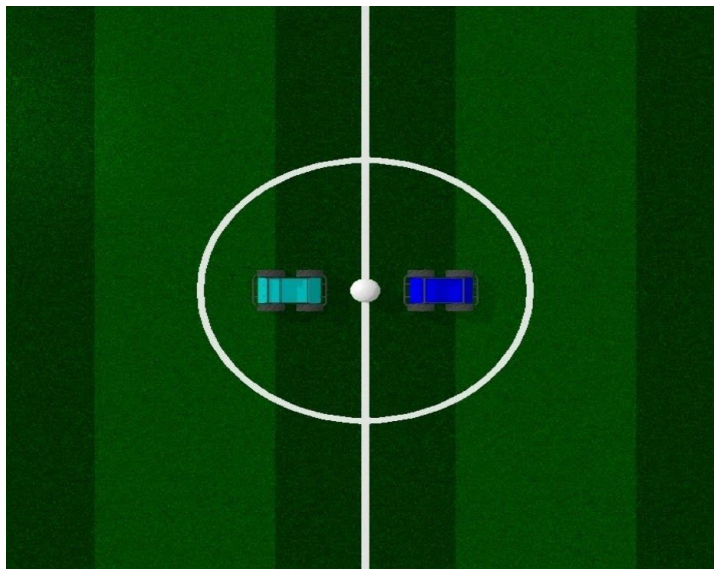
BEAT THE BOT!!!

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Well a douchebag is always required by you (stressed out living bots),but we don't want you to injure our Nutty (that we crafted with so much love and care) and rather compete with it.

In what ?

Gaming has fascinated all of us. Won't it be interesting to see two bots fighting and snatching balls. Fascinated by this gaming universe, our project is to make a **single player game of football**. We will provide you a bot with all functionalities (except skills, that you will have to get your own) sufficient to compete, sit back and see if you can win from our very competitive bot: **Nutmeg**(Nutty).



Problem we addressed

Designing a bot that will adapt to the game and make its own moves is often challenging. That is exactly what we tried to do here, **a bot with its own gameplay.**

Why did we approach this?

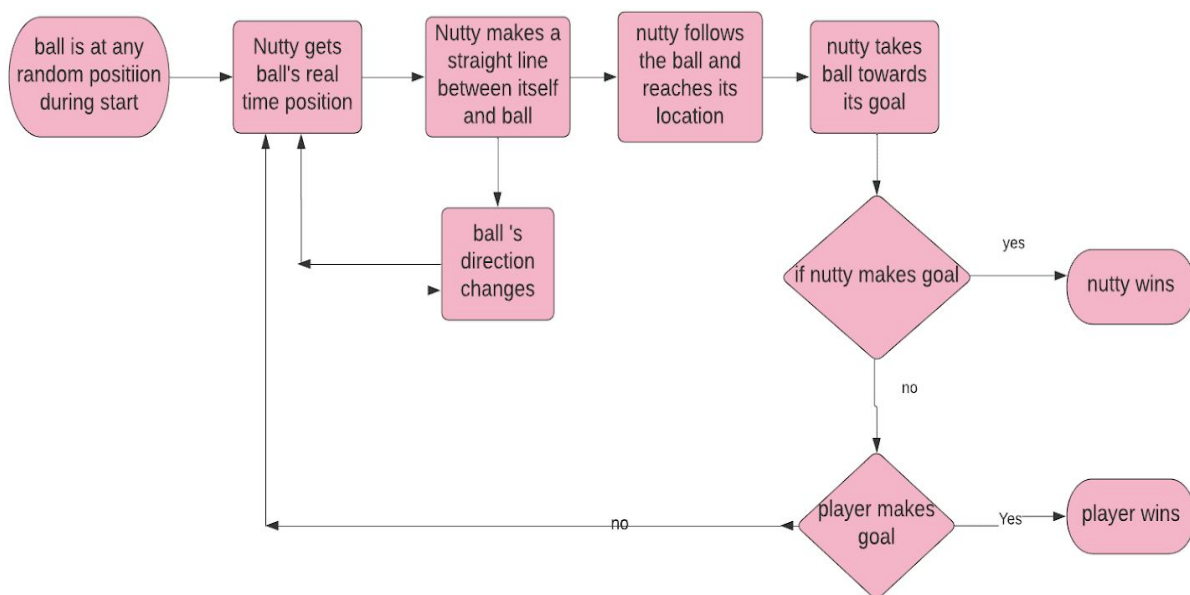
Playing games has always been fun. But the idea of making our own video game gives a thrill at the next level.

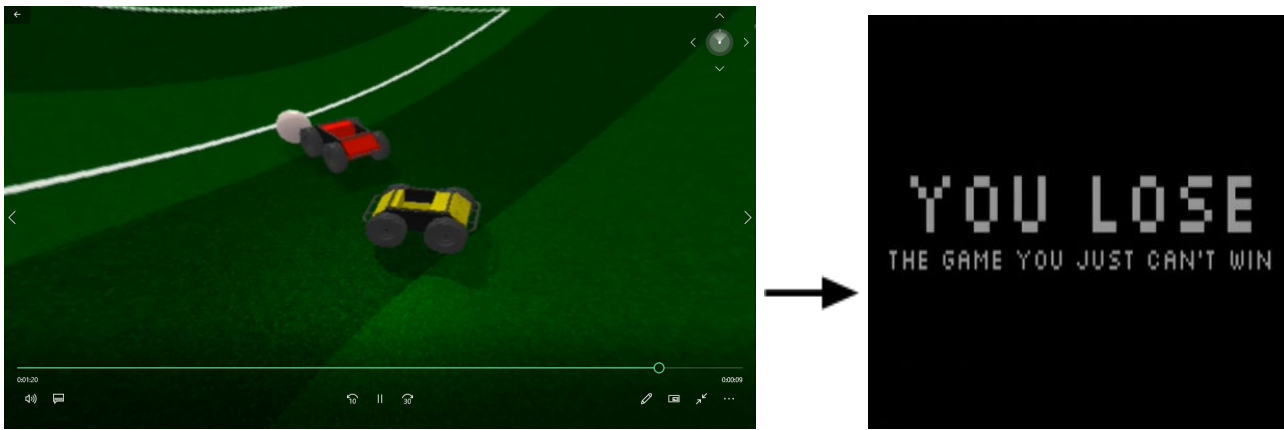
We all have played chess with the computer and wondered how can this machine be smarter than us. This project was almost like revealing secrets behind such mysteries with which we have lived our childhood.

Key concepts we used

So we have two bots in the play area. One is manually controlled and the other one is autonomous.

- For the manual bot, we have given the controls as keyboard event. We have used velocity control for the wheels.
- For making Nutty, our idea was to
follow the ball ,take it to the goal.





*(note-code compatible with python 3.8 and above)

Conclusion

We successfully made our Nutty competitive and empowered it with strong gameplay (and we are proud) .

But it has just started its journey and has a very bright future. There are locations where it fails to respond. We hope to solve this problem in some game training session with nutty. We are looking forward to time when it will be playing different levels of this game with different hurdles, speed and fight many other challenges

Acknowledgement

We would like to express our genuine gratitude to our mentors who were extremely helpful in this learning journey. They were not only surprisingly patient in dealing with our problems and doubts but also very thoughtful. The problem statement gave us a vast horizon to explore and assignment of group project actually helped develop teamwork that is otherwise a not-so-easy skill to develop.