**Sports Balls**

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GDD 3400

**Razor:**

Challenge artificial intelligence, in a sporting match it was literally created to play, to prove you are the ultimate Sports Ball champion.

**Player Story:**

You play as a modern day athlete trying to prove they are the greatest at what they do. Someone has created an artificial intelligence to play the game, and in order to prove you are the best, you must compete against it. You must train against the less intelligent versions to prepare yourself to fight the greatest challenge the bots have to offer.

The sport you are trying to master takes place in a flat arena with various obstacles stopping you from getting the ball into the opponent’s goal. You must do your best to get the ball into the opponent’s goal more times than they can in the allotted time to win. Defeat all of the AI and you will be crowned Sports Ball Champion.

**Major Features:**

* Slide around the sports arena
* Hit the ball into the opposing goal
* Sprint for a large boost of speed
* Compete against an AI agent
* Watch AI agents fight each other
* Play in 3 arenas of varying complexity
* Collect power-ups to augment your athlete

**Artificial Intelligence:**

* The AI agents will navigate using a nav-mesh for movement.
* They will use decision trees to determine course of action
* On the hardest difficulty there will be two opponents and one will be on offense and the other defending
* The easiest AI will play aggressively and try to score always
* The medium AI will play differently based on where the ball is on the court
* The different maps will have varying obstacles on the court
* The upgrades are for speed of the characters and the AI will have to decide when its safe to go out of their way to get them.