

Individual Self-Assessment

For our project we decided to focus on NBA team's success in relation to their team's payroll and statistics. We wanted to find out what factors played the greatest role in determining an NBA team's season, and if we could predict which teams would make the playoffs through a machine learning model. To do this we implemented a random forest classifier which allowed us to rank all our features in our database and determine which metrics mattered the most for NBA teams. Our results found that team win percentage, three-point percentage and payroll were some of the categories with reasonable influence and developed a model that could predict if a team would make the playoffs with a 50% accuracy.

Our team loosely implemented the square, circle, triangle and X roles system and I was originally assigned the circle role to make sure our database was clean and well formatted. I achieved this by parsing through our datasets, which was made up of CSV's, and making sure there was no null values, and that each column was formatted correctly. I was also put in charge of creating our dashboard which I achieved with Tableau. I also indirectly assisted with each other role when we had our meetings as I would contribute my feedback on our machine learning models, webpage and presentation. The greatest challenge I faced in this project was keeping up with my peers as we were all working quickly to complete our deliverables. This was achieved by being in constant communication with them and giving ourselves feasible deadlines to submit our work.

Our team's communication protocol was messaging via Slack and coordinating Zoom meetings on Friday mornings, and occasionally on weekends as we saw fit. There were some challenges to this, however, as we all had different schedules throughout the week and would have to be flexible with our meeting times. Our team's biggest strength was our ability to be

open to suggestions and not take anything personally when viewing each other's work. This is a major key to success in this class that I would recommend to any other cohort as being open to suggestions and not being afraid to admit we were wrong allowed us to turn in something we were all proud of.