Introduction

In this report, I will be discussing the climate change, specifically on the topic of forest land against arable land which is essentially deforestation from first, second and third world countries.

1. Forest and Arable land

Some teams are already set on good offense, but problem is they lack defensive players. How do I determine whether the player is capable of being a great defensive player? We need them to be tall enough to stop block shots, long arm in order to steal the ball from opponents and agile enough to keep up with the offensive players. A simple formula of ‘*Height + Wingspan + Vertical + Reach – Agility*’. We can clearly see that from Figure 1 that player 0 is the best defender and from my code I found that player 0 is “Andre Drummond”.

Chart, line chart

Description automatically generated

1. Height and Wingspan Correlation

The average human has a height to wingspan ratio of one to one. What makes a basketball player so peculiar other than their bizarrely tall height? They usually have a much bigger wingspan than their height, sometimes even almost a foot longer than their height! Here we see a graph of the height of the players compared to their wingspan, but some players do have a shorter wingspan than their height as observed at x around 55 *(Figure 2).*

Chart, scatter chart

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Figure 2 : Wingspan at red and Height at blue, a clear graph that shows Wingspan are higher than blue.

Let’s have a look and see if their height and wingspan really do correlate. First, I generate a simple scatter plot *(Figure 3).* We see that visually there is a positive correlation but to really know if that’s true, we should generate correlation coefficient values. *(Figure 4)*Chart, scatter chart

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Figure 3: Wingspan and Height correlation

|  |  |  |
| --- | --- | --- |
|  | P-value | Correlation Coefficient |
| Spearman’s | 4.6 x 10-19 | 0.862 |
| Pearson’s | 1.7 x 10-17 | 0.842 |

Figure 4: P-value and Correlation Coefficient of Height and Wingspan

I can see that not only is the P value is so small that I have strong evidence of null hypothesis, but my correlation coefficient is 0.84-0.86 which indicates that there is a clear positive relationship between my height and wingspan.