

Draft Presentation

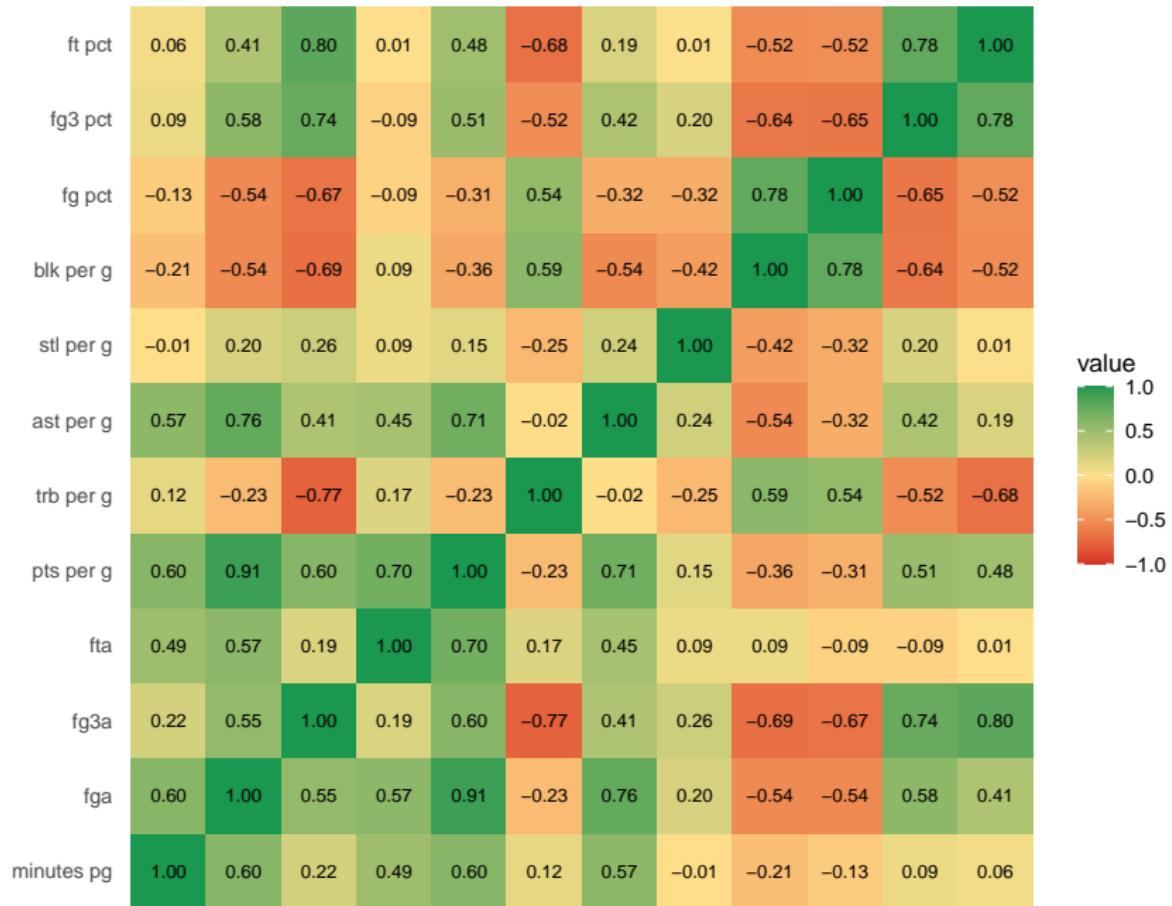
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Goal: Recreate confusion matrix of 2018 NBA data and compare to the 2022 season

- ▶ Use a confusion matrix to determine outcomes of predicting top player status
- ▶ Group top 15 players and create a heat map/confusion matrix to predict top player status
- ▶ Recreate heat mapped confusion matrix or a single row.
- ▶ Goal is to predict as many NBA All-Stars as possible.

Their Confusion Matrix



Our Confusion Matrix

| | ft pct | -0.05 | 0.22 | -0.30 | -0.06 | -0.46 | 0.04 | -0.20 | -0.37 | -0.17 | 0.56 | 1.00 |
|------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| fg3 pct | 0.23 | 0.29 | 0.46 | -0.10 | 0.29 | -0.05 | -0.34 | -0.39 | 0.14 | -0.14 | 1.00 | 0.56 |
| fg pct | -0.18 | -0.28 | -0.60 | 0.23 | 0.10 | 0.66 | -0.06 | 0.13 | 0.58 | 1.00 | -0.14 | -0.17 |
| blk per g | -0.09 | 0.03 | -0.26 | 0.63 | 0.42 | 0.82 | -0.49 | -0.15 | 1.00 | 0.58 | 0.14 | -0.37 |
| stl per g | -0.33 | -0.67 | -0.09 | -0.52 | -0.70 | 0.00 | 0.55 | 1.00 | -0.15 | 0.13 | -0.39 | -0.20 |
| ast per g | -0.20 | -0.33 | 0.09 | -0.34 | -0.39 | -0.30 | 1.00 | 0.55 | -0.49 | -0.06 | -0.34 | 0.04 |
| trb per g | -0.16 | 0.00 | -0.27 | 0.52 | 0.35 | 1.00 | -0.30 | 0.00 | 0.82 | 0.66 | -0.05 | -0.46 |
| pts per g | 0.23 | 0.86 | 0.21 | 0.71 | 1.00 | 0.35 | -0.39 | -0.70 | 0.42 | 0.10 | 0.29 | -0.06 |
| fta | -0.16 | 0.38 | -0.29 | 1.00 | 0.71 | 0.52 | -0.34 | -0.52 | 0.63 | 0.23 | -0.10 | -0.30 |
| fg3a | 0.18 | 0.44 | 1.00 | -0.29 | 0.21 | -0.27 | 0.09 | -0.09 | -0.26 | -0.60 | 0.46 | 0.22 |
| fga | 0.44 | 1.00 | 0.44 | 0.38 | 0.86 | 0.00 | -0.33 | -0.67 | 0.03 | -0.28 | 0.29 | -0.05 |
| minutes pg | 1.00 | 0.44 | 0.18 | -0.16 | 0.23 | -0.16 | -0.20 | -0.33 | -0.09 | -0.18 | 0.23 | 0.04 |



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