

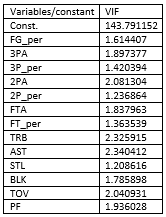
Dropped:

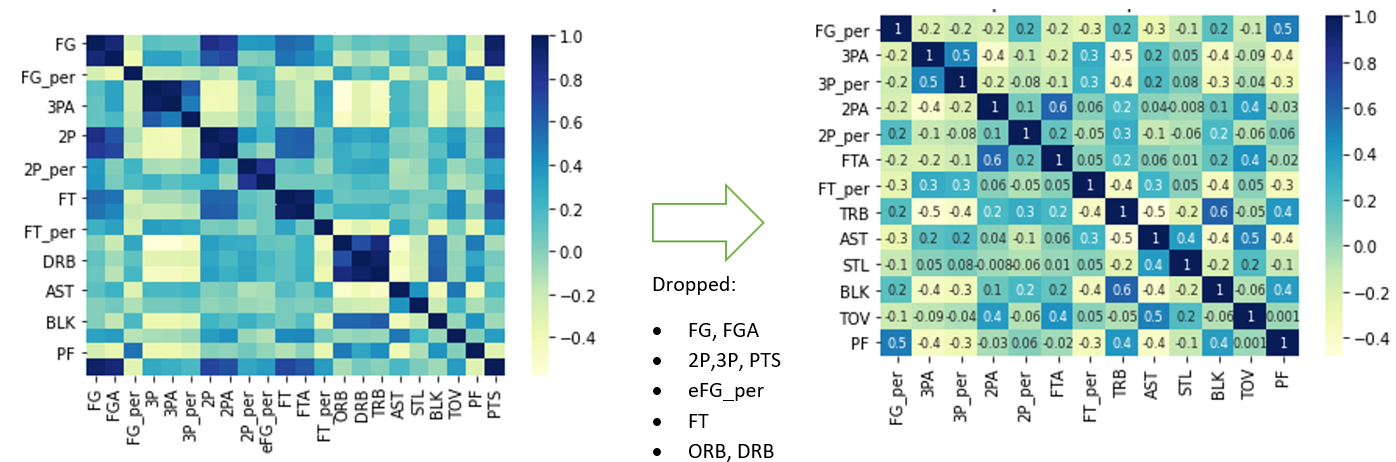
* FG, FGA
* 2P,3P, PTS
* eFG\_per
* FT
* ORB, DRB

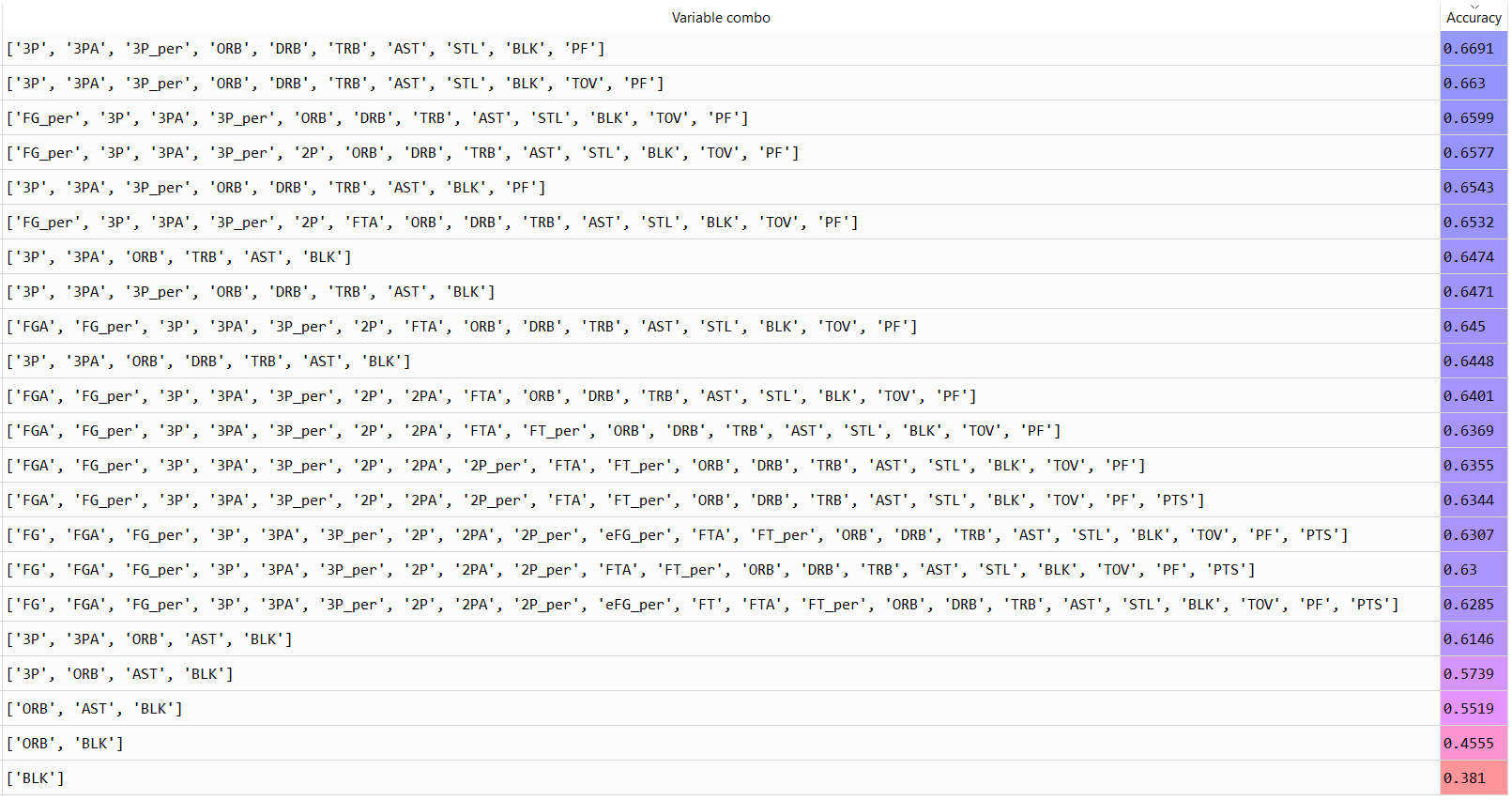
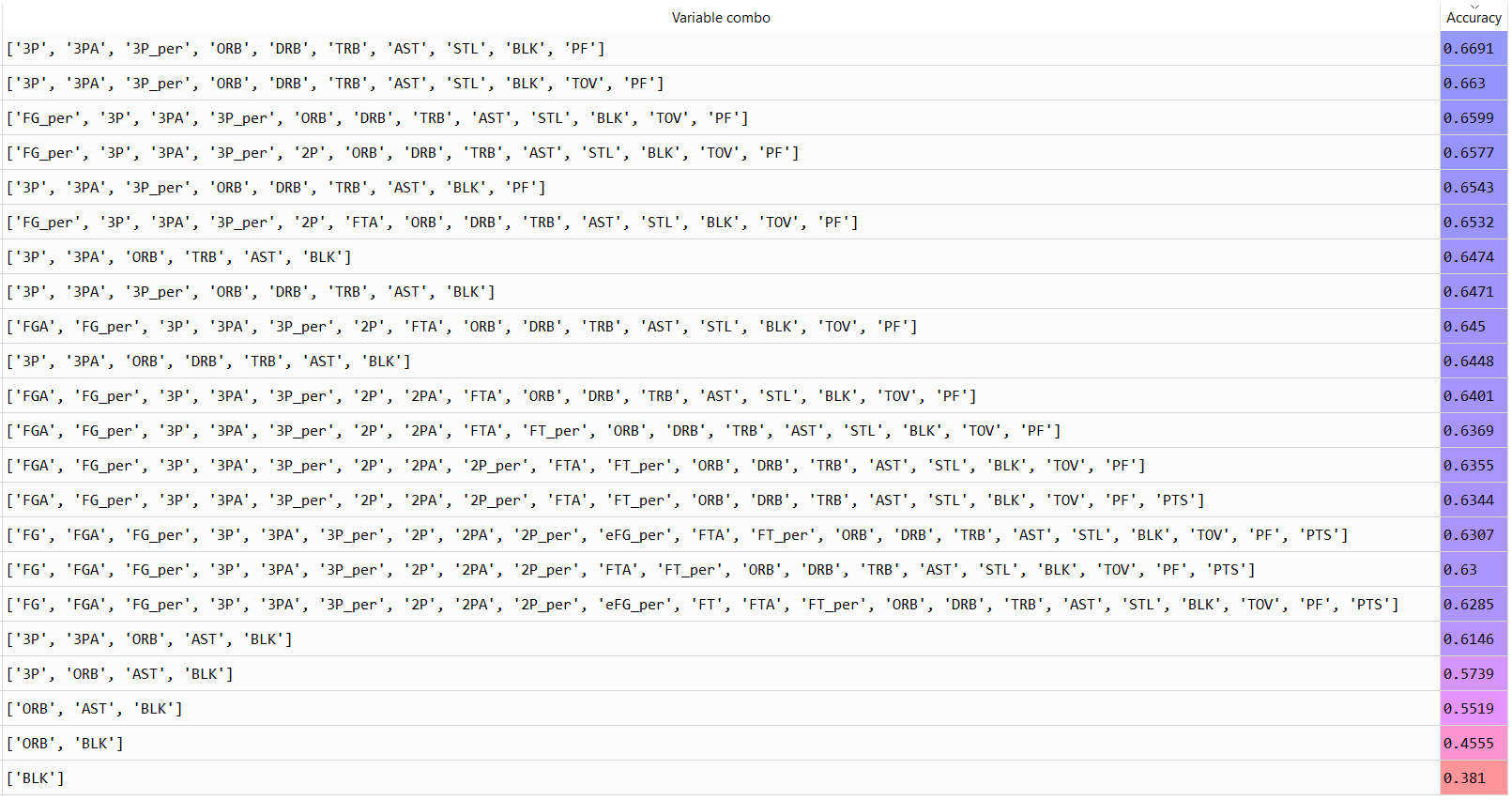
|  |  |
| --- | --- |
| Variables/constant | VIF |
| Const. | 143.791152 |
| FG\_per | 1.614407 |
| 3PA | 1.897377 |
| 3P\_per | 1.420394 |
| 2PA | 2.081304 |
| 2P\_per | 1.236864 |
| FTA | 1.837963 |
| FT\_per | 1.363539 |
| TRB | 2.325915 |
| AST | 2.340412 |
| STL | 1.208616 |
| BLK | 1.785898 |
| TOV | 2.040931 |
| PF | 1.936028 |



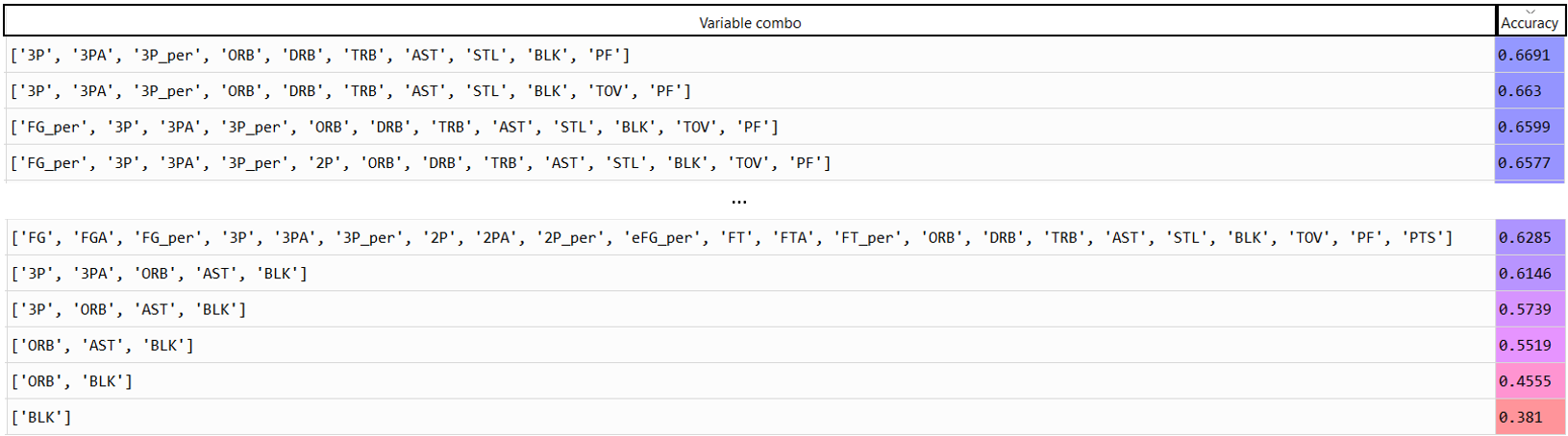




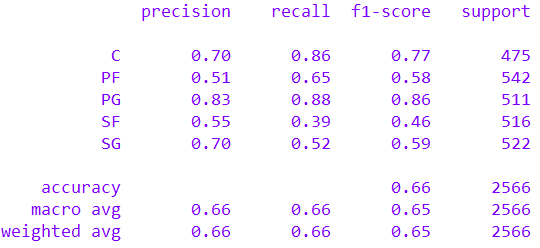
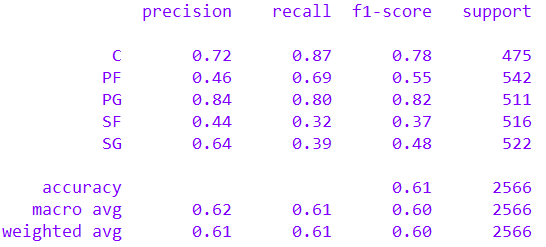




…



**Labels**



**KNN**

**Log\_reg**

**GNB**



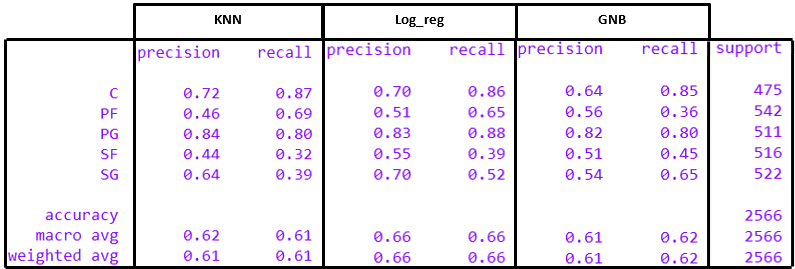
**Label Occurrence**

Figure 4: KNN

Figure 3: Log\_reg

Figure 2: GNB

|  |  |  |  |
| --- | --- | --- | --- |
| Metric | KNN | Log\_reg | GNB |
| Accuracy | 0.61 | 0.66 | 0.62 |
| Weighted Precision | 0.61 | 0.66 | 0.61 |
| Weighted Recall | 0.61 | 0.66 | 0.62 |



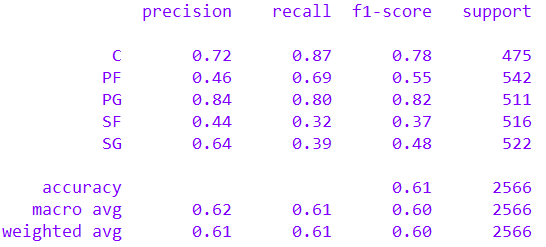


Figure : KNN

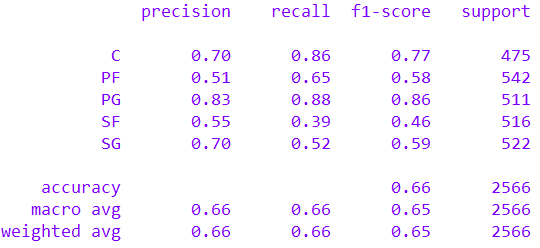
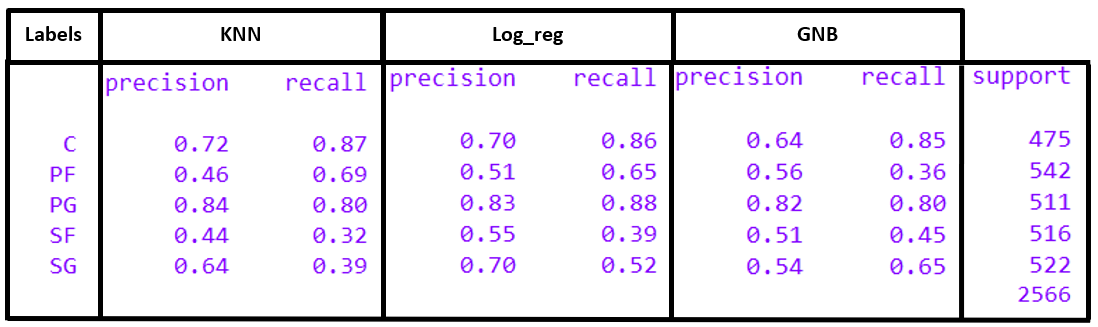
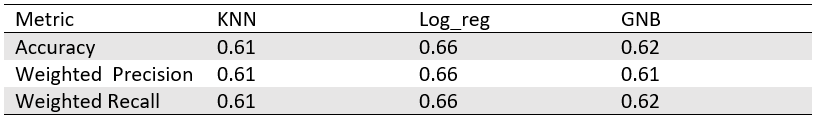


Figure 3: Log\_reg



Figure : GNB





OPEN FILE: ” Testing\_All\_Models.py” in

Ensemble\Final Model\_ Hard voting classifier

Choose your model from the available options

Show evaluation metrics (Classification Report, Confusion Matrix)?

How many player positions do you want to predict?

One

(**Recommended** )

More than one

**Line 14**

Set <multiple = False>

* F

**Line 14**

Set <multiple = True>

Yes

No

**Line 17**

Set <Eval1 = True>

In **line 61** reference a csv file containing per 36 min player statistics from the current directory. An example of this csv file in the current directory titled ‘df\_10.csv’).

e.g., if the csv file was called ‘df\_10’

set <f = ’ df\_10.csv'>

**Run Script**

**(For results look at the console or the ‘y\_pred’ variable )**

**Line 17**

Set <Eval1 = False>

Edit the per 36 mins statistics player in **Lines 24-36**

