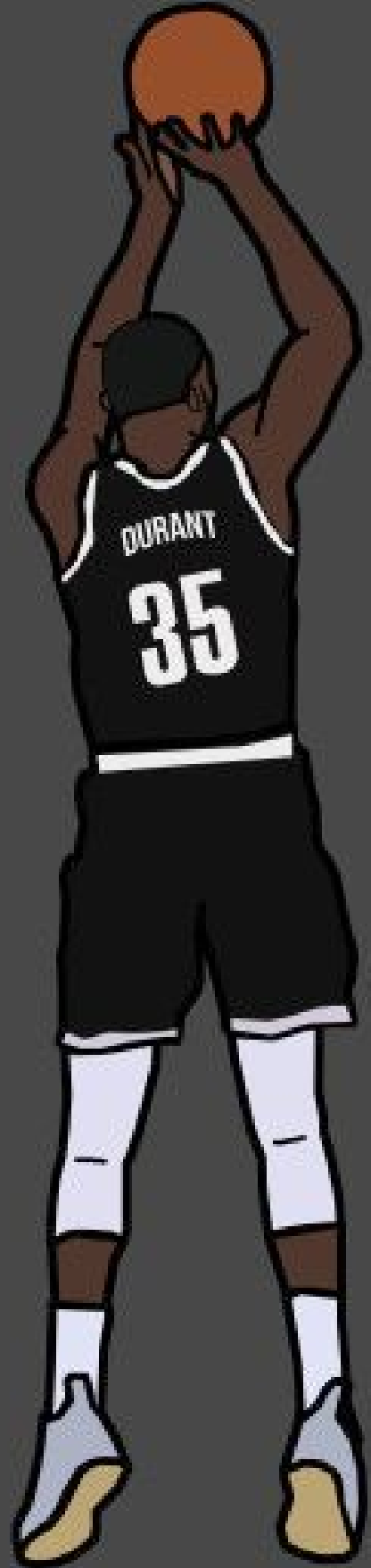


NBA 2022 W/L

Predictor

**By: Connor McClain
&
James Nix**





Overview

- 205 Sports Solutions' goal is to predict the NBA Playoff Champion
- Playoff outcome is based on regular season individual player rankings

Index

- **Data**
- **Model**
- **Results**
- **Conclusion**
- **Future work**



Data

- NBA, ESPN & Basketball-Reference
- Player ranking, team and game data was combined to produce our input data
- Individual player rankings used to predict points scored in a game

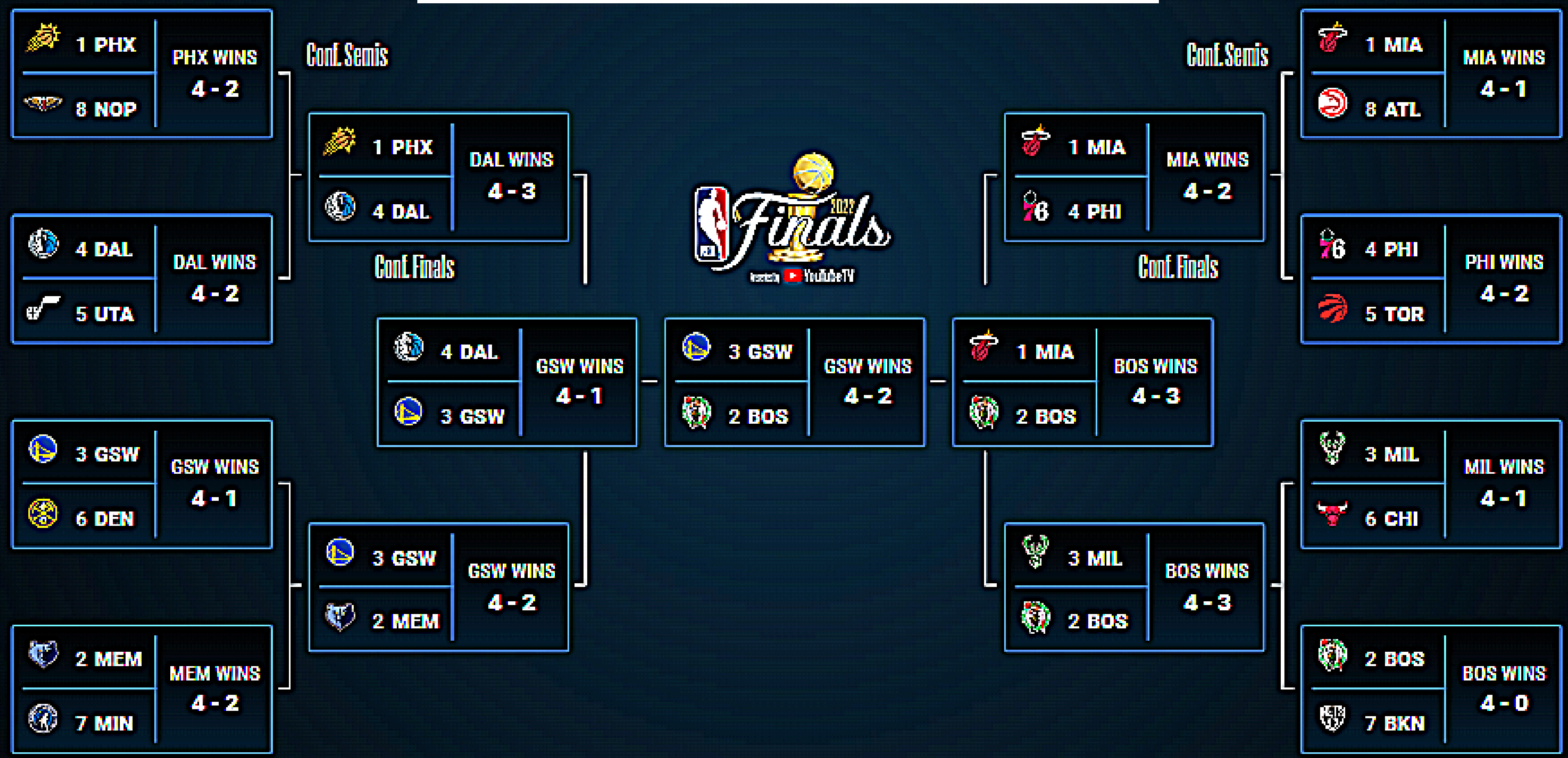


Model



- XGBoosted model
- Predicted scores have an average error of +/- 11.52 points
- The max error is 38.13 points
- Only 28% of variance is explained





Overall Results





Overall Results



~~| | |
|--|----------|
|  1 PHX | PHX WINS |
|  8 NOP | 4 - 2 |~~



Conf. Semis

~~| | |
|---|----------|
|  1 PHX | DAL WINS |
|  4 DAL | 4 - 3 |~~



Conf. Finals

~~| | |
|--|----------|
|  4 DAL | DAL WINS |
|  5 UTA | 4 - 2 |~~



 3 GSW	GSW WINS
 6 DEN	4 - 1





~~| | |
|--|----------|
|  2 MEM | MEM WINS |
|  7 MIN | 4 - 2 |~~

 3 GSW	GSW WINS
 2 MEM	4 - 2



 4 DAL	GSW WINS
 3 GSW	4 - 1



 3 GSW	GSW WINS
 2 BOS	4 - 2



~~| | |
|---|----------|
|  1 MIA | BOS WINS |
|  2 BOS | 4 - 3 |~~
~~| | |
|---|----------|
|  3 MIL | BOS WINS |
|  2 BOS | 4 - 3 |~~

Conf. Semis



~~| | |
|---|----------|
|  1 MIA | MIA WINS |
|  4 PHI | 4 - 2 |~~

Conf. Finals

 1 MIA	MIA WINS
 8 ATL	4 - 1

~~| | |
|---|----------|
|  4 PHI | PHI WINS |
|  5 TOR | 4 - 2 |~~

 3 MIL	MIL WINS
 6 CHI	4 - 1

~~| | |
|---|----------|
|  2 BOS | BOS WINS |
|  7 BKN | 4 - 0 |~~

Overall Results



1 PHX

8 NOP

PHX WINS
4 - 2

4 DAL

5 UTA

DAL WINS
4 - 2

3 GSW

6 DEN

GSW WINS
4 - 1

2 MEM

7 MIN

MEM WINS
4 - 2

Conf. Semis
1.7

1 PHX

4 DAL

DAL WINS
4 - 3

Conf. Finals

4 DAL

3 GSW

GSW WINS
4 - 1

3 GSW

2 MEM

GSW WINS
4 - 2

Conf. Semis
3.8

1 MIA

4 PHI

MIA WINS
4 - 2

Conf. Finals
4.9

1 MIA

2 BOS

BOS WINS
4 - 3

13.8

3 MIL

2 BOS

BOS WINS
4 - 3

1 MIA

8 ATL

MIA WINS
4 - 1

0.4

4 PHI

5 TOR

PHI WINS
4 - 2

3 MIL

6 CHI

MIL WINS
4 - 1



9.3

2 BOS



7 BKN

BOS WINS
4 - 0



Overall Results

 1 PHX	PHX WINS
 8 NOP	4 - 2



Conf. Semis

 1 PHX	DAL WINS
 4 DAL	4 - 3

Conf. Finals



 4 DAL	DAL WINS
 5 UTA	4 - 2

 3 GSW	GSW WINS
 6 DEN	4 - 1

 2 MEM	MEM WINS
 7 MIN	4 - 2





 4 DAL	GSW WINS
 3 GSW	4 - 1



 3 GSW	GSW WINS
 2 BOS	4 - 2



 3 GSW	GSW WINS
 2 MEM	4 - 2


Conf. Semis


 1 MIA	MIA WINS
 4 PHI	4 - 2


Conf. Finals



 1 MIA	BOS WINS
 2 BOS	4 - 3

 3 MIL	BOS WINS
 2 BOS	4 - 3

 1 MIA	MIA WINS
 8 ATL	4 - 1

 4 PHI	PHI WINS
 5 TOR	4 - 2

 3 MIL	MIL WINS
 6 CHI	4 - 1

 2 BOS	BOS WINS
 7 BKN	4 - 0

Conclusion

- **Model would have predicted bracket winner**
- **Human aspect is missing**
- **SUCCESS**



Future Work

- Add injury/inactive column
- More data = more training for the model
- App/Website to predict individual game outcomes





Thank you!

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