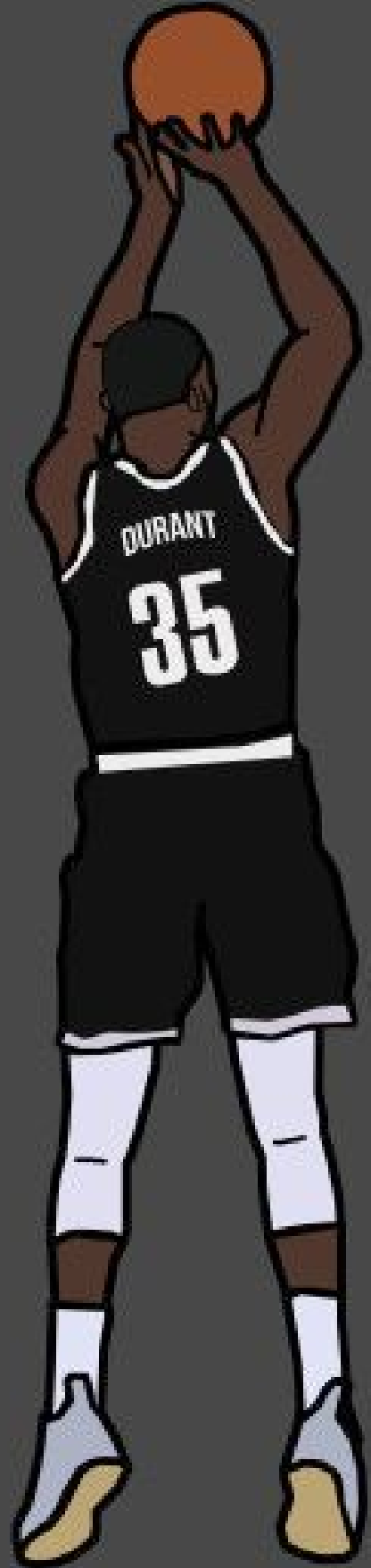


NBA 2022 W/L

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**

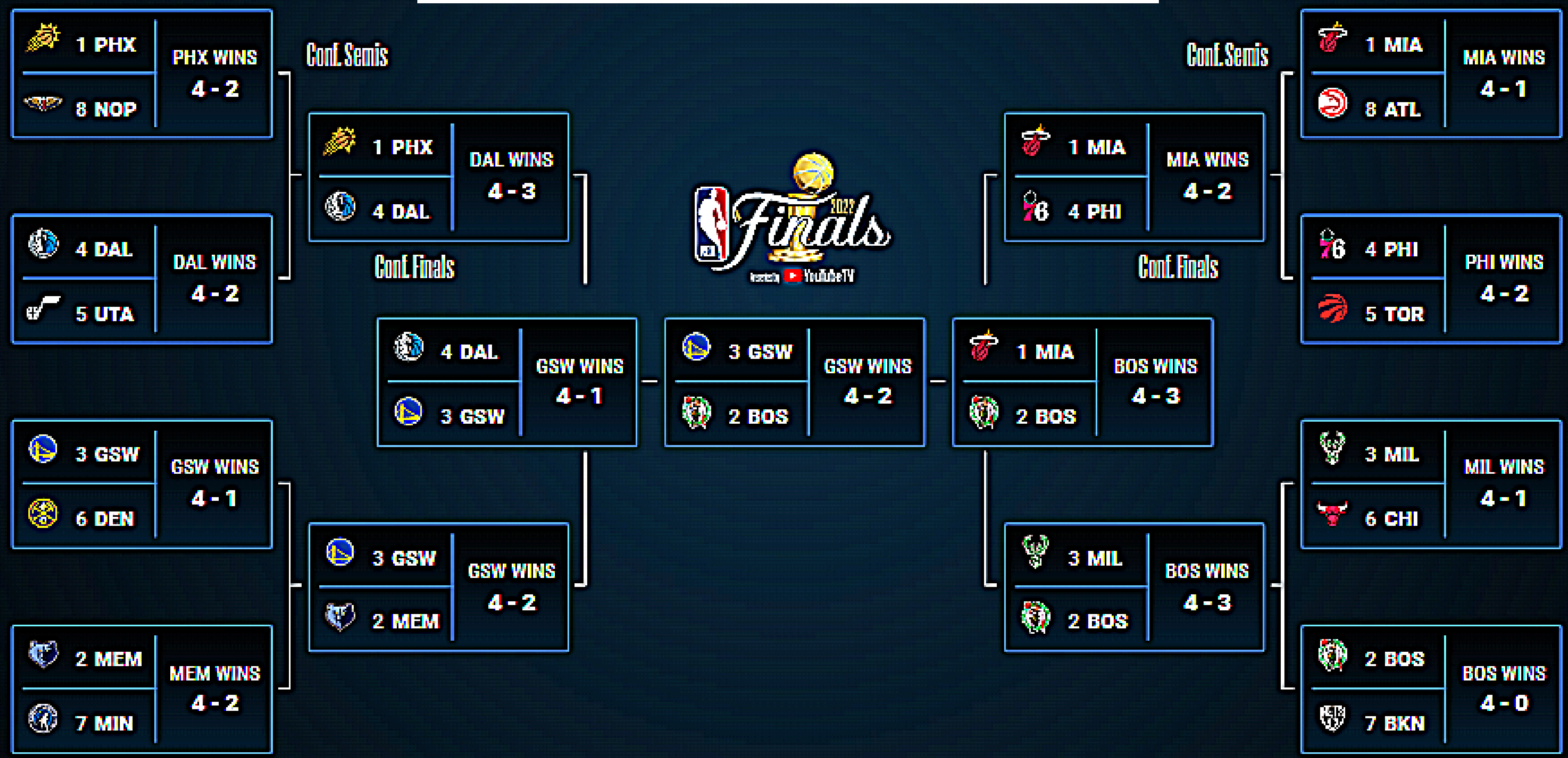


Model

- 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





WESTERN CONFERENCE


Round 1

1.4



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

1.1

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



 3 GSW	GSW WINS
 6 DEN	4-1

1.5



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

Conf. Semis



1.7

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

Conf. Finals



 4 DAL	GSW WINS
 3 GSW	4-1



 3 GSW	GSW WINS
 2 BOS	4-2



3.8

Conf. Semis



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

4.9

Conf. Finals



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

13.8



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

EASTERN CONFERENCE

Round 1



 1 MIA	MIA WINS
 8 ATL	4-1

0.4



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

 3 MIL	MIL WINS
 6 CHI	4-1



9.3

~~| | |
|---|----------|
|  2 BOS | BOS WINS |
|  7 BKN | 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	GSW WINS
 3 GSW	4 - 1



 3 GSW	GSW WINS
 2 BOS	4 - 2

~~| | |
|---|----------|
|  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 |~~
~~| | |
|--|----------|
|  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

Conclusion

- **Model would have predicted bracket winner**
- **Human aspect**
- **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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