

# Defense Win Championships?

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# Proposal

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- Research Question: Better Defense or Offense leads to team success?
  - Defense or offense made playoffs/win championships?
  - What are the key elements lead to the team success?
  - Predict the championship this year if possible
- Product:
  - Select a team + season
  - Show predicted playoff/championship probability
  - Visualize offensive/defensive contribution

# Data Collection

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- Collected **regular season + playoff team stats (2014–2024)** using nba\_api
- Integrated **top 3 player performance data for each team**
- Added advanced metrics: OFF\_RATING, DEF\_RATING, NET\_RATING
- Created playoff and championship labels using merged data

# Initial EDA

