

# Predicting the NCAA 2019 Men's Basketball Championship

A UVA Data Science Case Study by Catherine Schuster, 2022



**Prompt:** It is early November of 2018 and you are a freshly starting data analytics recruit for your dream company, ESPN. The NCAA college basketball tournament is about to begin, and your manager has tasked you with creating an algorithm to model and predict the entire 2019 NCAA bracket. As an alumni from the greatest school ever, you already have a team to root for (GO HOOS!), but as a data scientist, you know you must keep an unbiased perspective in your hunt for the most plausible outcomes.

**Deliverable:** Produce a methodology to predict the winner of each game in the NCAA tournament. You have been given three datasets to work with for this project that contain individual game statistics and average across-season statistics from 2003-2019. You may collect additional data if you feel that you need it. Your work will be assessed by the thoughtfulness of your methodology, your choice of model, and how the features used align with the goal of predicting the outcome of basketball games. You will NOT be graded by the accuracy of your predictions.

## Example Deliverable:

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