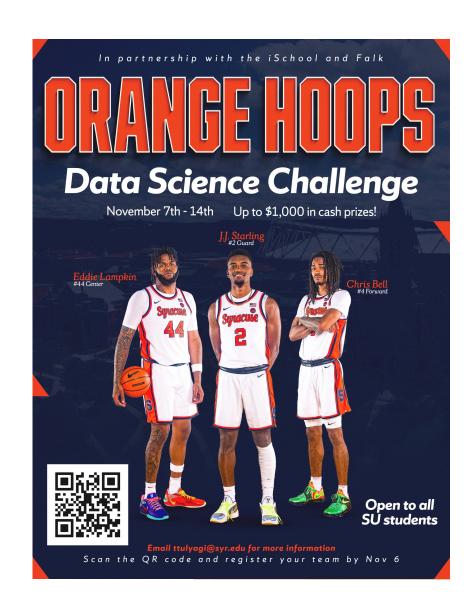
Orange Hoops Data Science Challenge

Kick-off discussion



Two contests

- Understanding player health and predicting player injuries
- Understanding player performance and predicting who should 'take the shot'
- Submit to one or both (separate submission for each)

Player Injuries

Goal: Predict player injuries

Data Attributes:

- Player context:
 - ▶ Name, Player.ID, Group.Id, Group.name, League.ID, Position
- Session Data:
 - Session.ID, Session_Date
 - ▶ Distance..mi., Distance...min..mi., Duration..s., Steps,
 - ▶ Speed....of.max....., Speed..max....mph., Speed...mph., Time..s.,
 - Accumulated. Acceleration. Load, Anaerobic. Activity.. distance...mi., Jump. Load...J.,
 - ▶ Heart.Rate...bpm., Heart.Rate..min....bpm., Heart.Rate..max....bpm., Heart.Rate.Recoveries
 - ▶ Human.Core.Temperature....F., Human.Core.Temperature..max.....F., TRIMP
 - ▶ Jump.Height..max....ft., Changes.of.Orientation, Exertions
 - Disk.Usage....

Player Performance

Goal: Select a team and suggest who takes winning shot (and why that person)

Data Attributes

- Game information:
 - ▶ game_id, date, home, away, referees, arena_location, arena, attendance
- Initial game predictions:
 - win_prob, naive_win_prob, home_favored_by, total_line
- Game situation:
 - play_id, home_time_out_remaining, away_time_out_remaining, half, time_remaining_half,
 - secs_remaining, secs_remaining_absolute
 - home_score, away_score, score_diff
- Play information
 - ▶ Description, action_team, play_length, scoring_play, shooter, foul
 - ▶ shot_team, shot_outcome, three_pt, free_throw, possession_before, possession_after

Access the Data

Performance data:
https://drive.google.com/file/d/1|lvH2CF3Z65s3Hb5AUFAsg010K|1|R6y/view?usp=s-haring

Injury data:

https://drive.google.com/drive/folders/1Pt9y6PlbvoK2-o-VwYJ2bO9LS1htcJFt?usp=sharing

Submissions

- What to submit:
 - ► A 'deck' explaining your insights
 - ► A video discussing the deck (at most 10 minutes)
 - ▶ A PDF file of a notebook (ex. colab notebook) or a URL of where your code can be reviewed
- Key evaluation criteria:
 - Unique insight
 - Actionable insight
 - Easy to understand / explain
 - ► Easy to understand / recreate
- ► How to submit:

https://syracuseuniversity.qualtrics.com/jfe/form/SV_b42MWvnzYDn0FMy

