Project EA Sports - FIFA

CS109a Final Project

11 December 2020

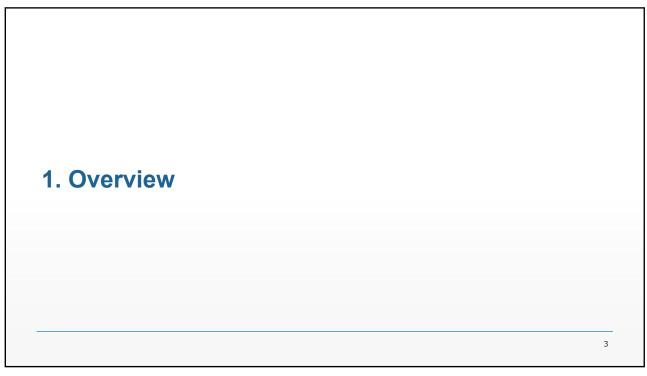
Group 4 – Clement Brenot, Luis Corrales, Ryuichiro Hashimoto, Yuki Yaguchi

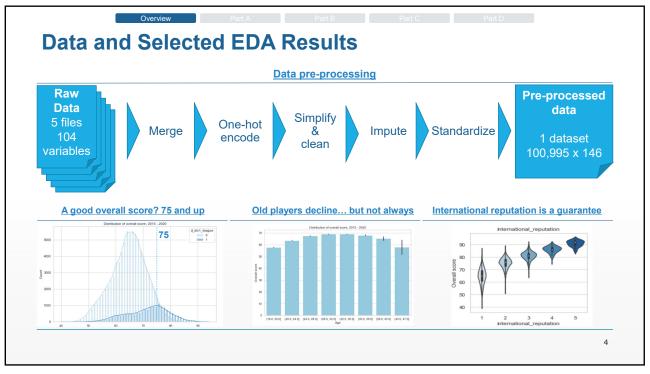
1

Agenda

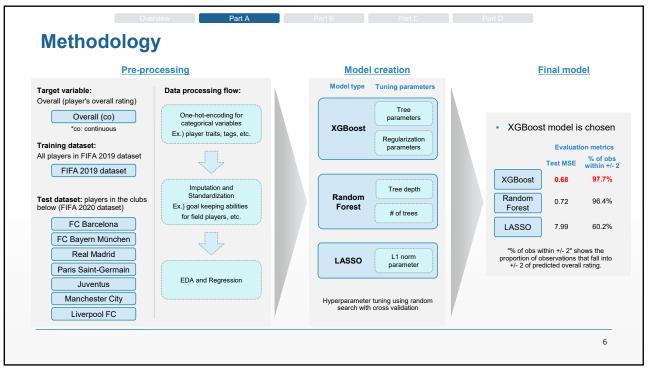
- 1. Overview
- 2. Part A Rank the Players
- 3. Part B Classify Player Position
- 4. Part C Which Club has the Best Staff?
- 5. Part D How Things will be in 2021?
- 6. Possible Future Improvements

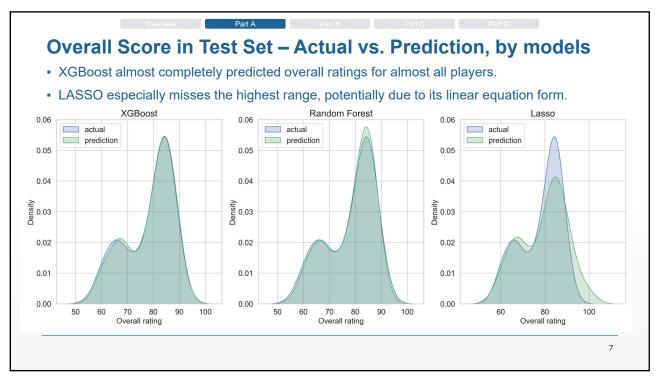




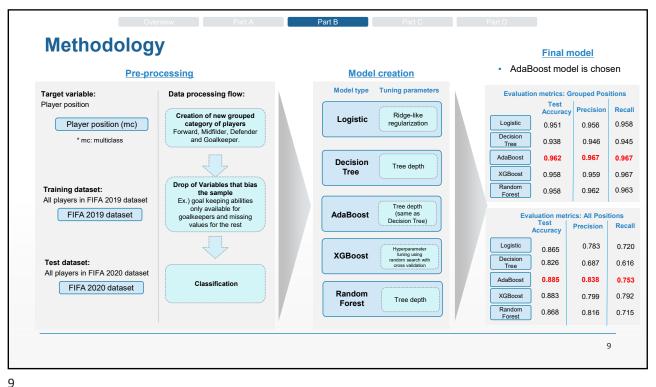


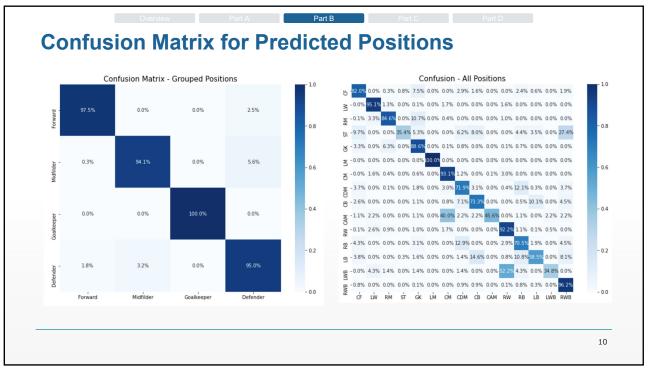
2. Part A - Rank the Players

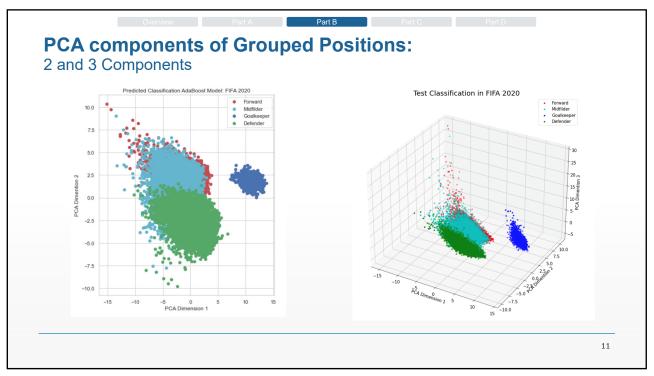




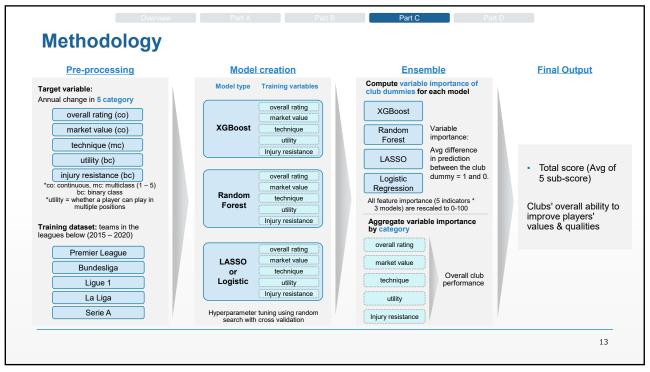
3. Part B - Classify Player Position

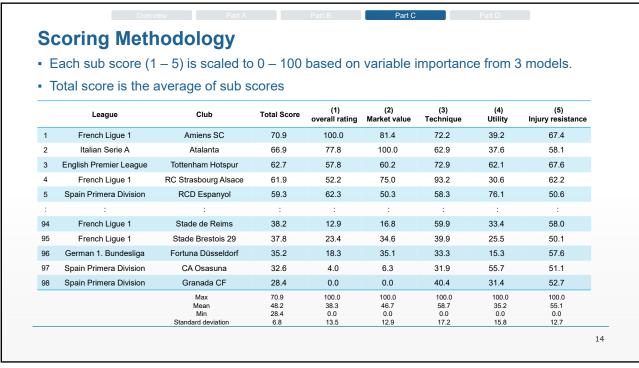


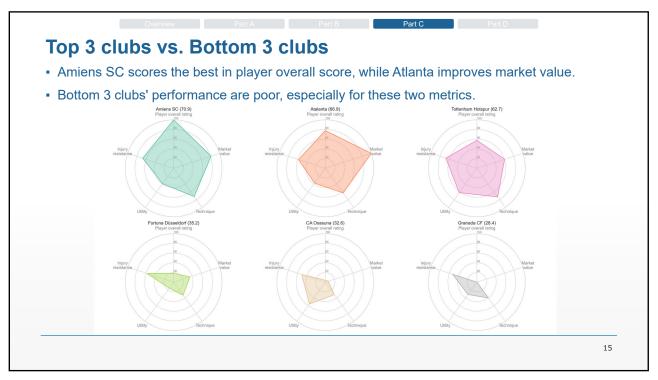


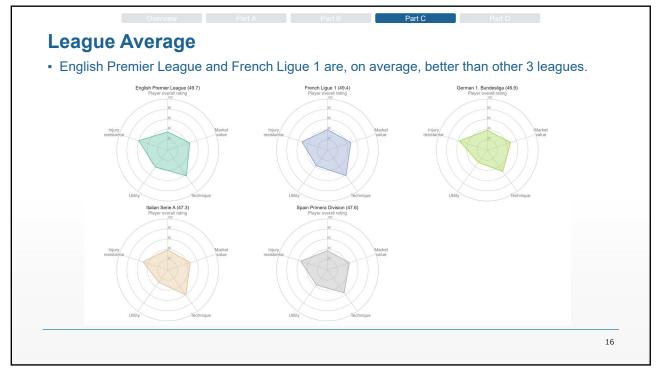


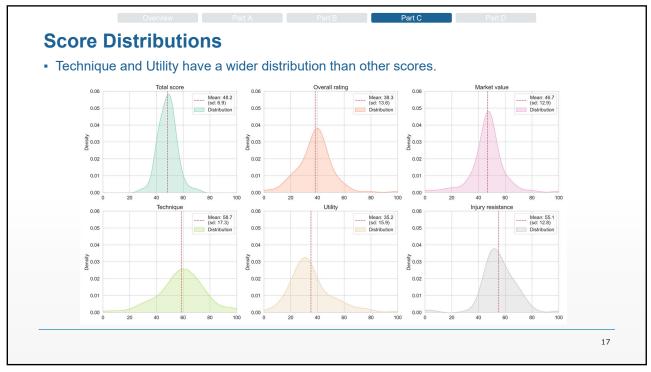
4. Part C – Which Club has the Best Staff?



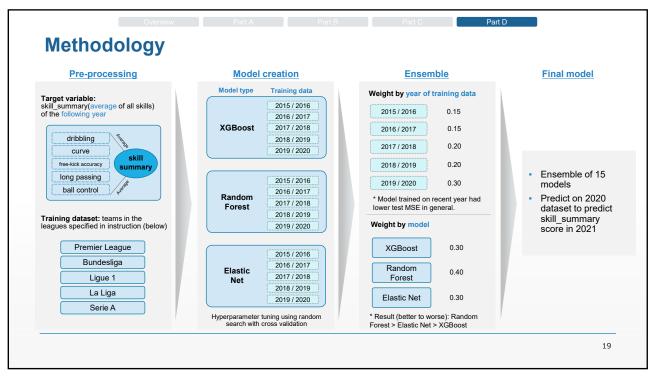




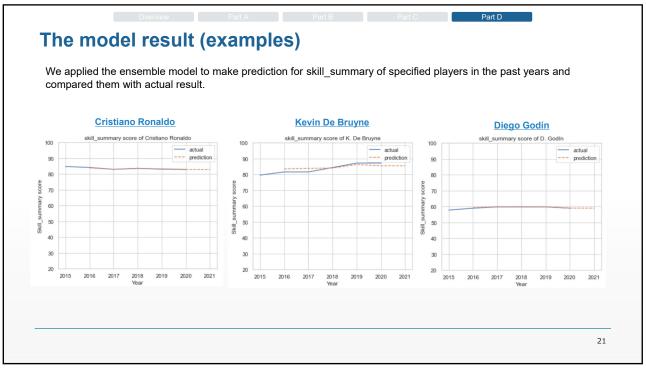




5. Part D – How Things will be in 2021?



est dataset: skill_summary score in 2020 predicted by data in 2019 bove number in each cell is test MSE score, the number below is its weight in the entire 15 models (%)					
Test MSE Weight in final ensemble model	2015 / 2016 (year weight: 0.15)	2016 / 2017 (year weight: 0.15)	2017 / 2018 (year weight: 0.20)	2018 / 2019 (year weight: 0.20)	2019 / 2020* (year weight: 0.30)
XGBoost (model weight: 0.30)	8.15	6.33	6.25	6.07	2.15
Random Forest (model weight: 0.40)	6.58	5.27	5.24	5.12	0.76
Elastic Net (model weight: 0.30)	7.90	5.05	5.02	4.94	4.81



6. Possible Future Improvements

Possible Future Improvements

Do we agree with our client on definitions and methodological choices?

Could neural networks further improve predictions?

23