ATP Singles Game Outcome Prediction





Predict Outcome

to improve understanding of **deterministic features** in predicting ATP Singles' game outcome



Apply ML Models

to investigate the applicability of **machine learning** methods to the prediction of professional tennis matches

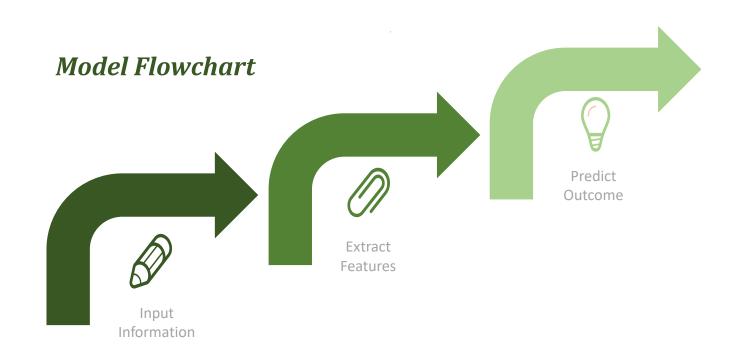
App Link: http://tennis.us-west-1.elasticbeanstalk.com

Q Data Description

- Time range: 2000.1.1 2017.12.31
- Data size: 50,000 game-level observations
- Data scope:
 - tournament level information: date, level, surface, etc.
 - Player level information: ranking, age, height, hand, etc.
 - In-game statistics: ace, serve point, break point, etc.
 - Players' recent rankings as of Feb, 2018

Model

- Model: Logistics Regression
- Success Measurement: accuracy ~ 76% under CV

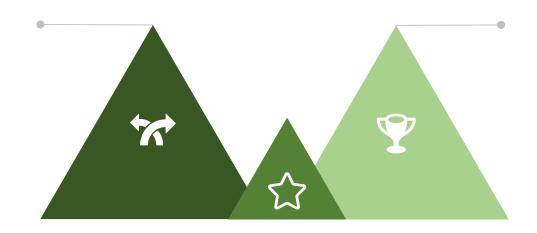




Federer-Nadal Rivalry

Federer v.s. Nadal

47%:53%



v.s. others >80%

