

Data Science Methods for Economics and Finance 871 Final Project: Predicting Chess Outcomes

Wesley Williams^a

^aStellenbosch University, South Africa

Abstract

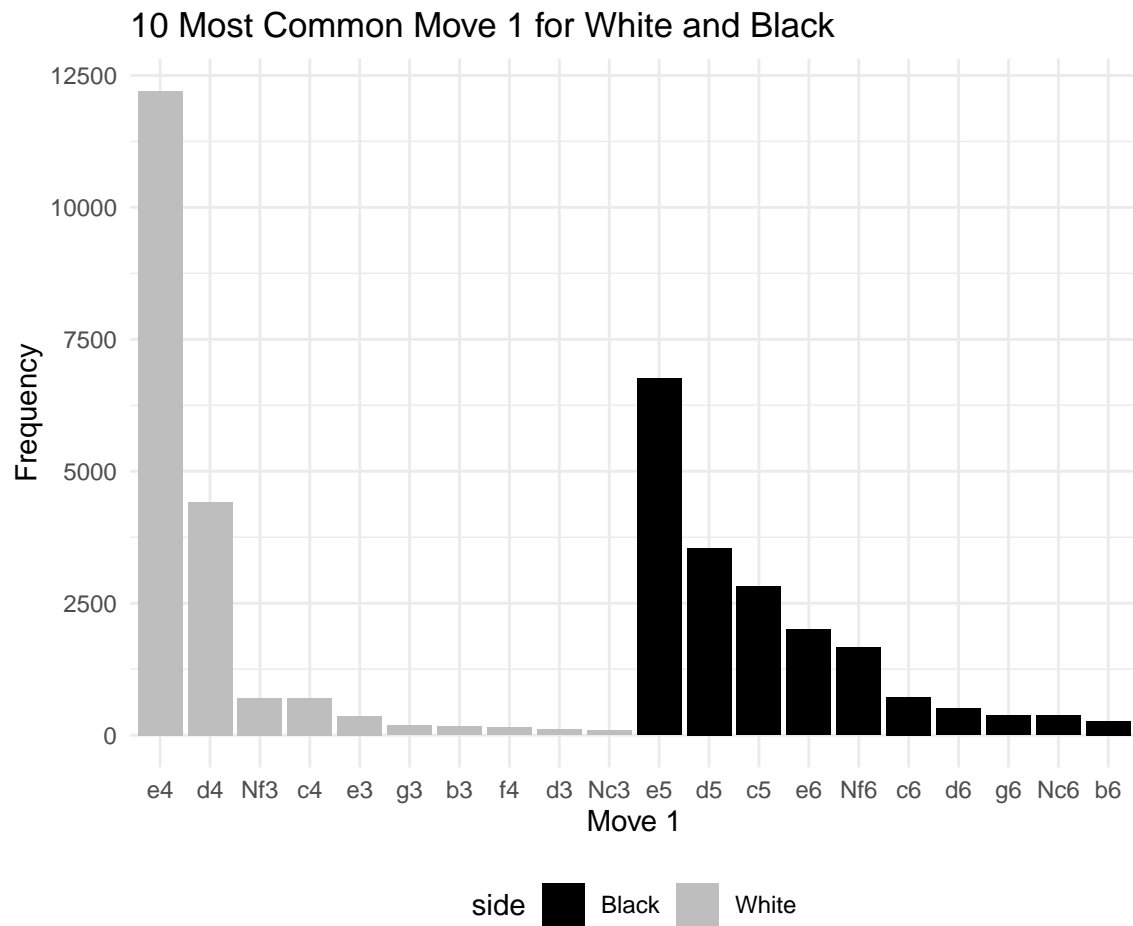
Abstract to be written here. The abstract should not be too long and should provide the reader with a good understanding what you are writing about. Academic papers are not like novels where you keep the reader in suspense. To be effective in getting others to read your paper, be as open and concise about your findings here as possible. Ideally, upon reading your abstract, the reader should feel he / she must read your paper in entirety.

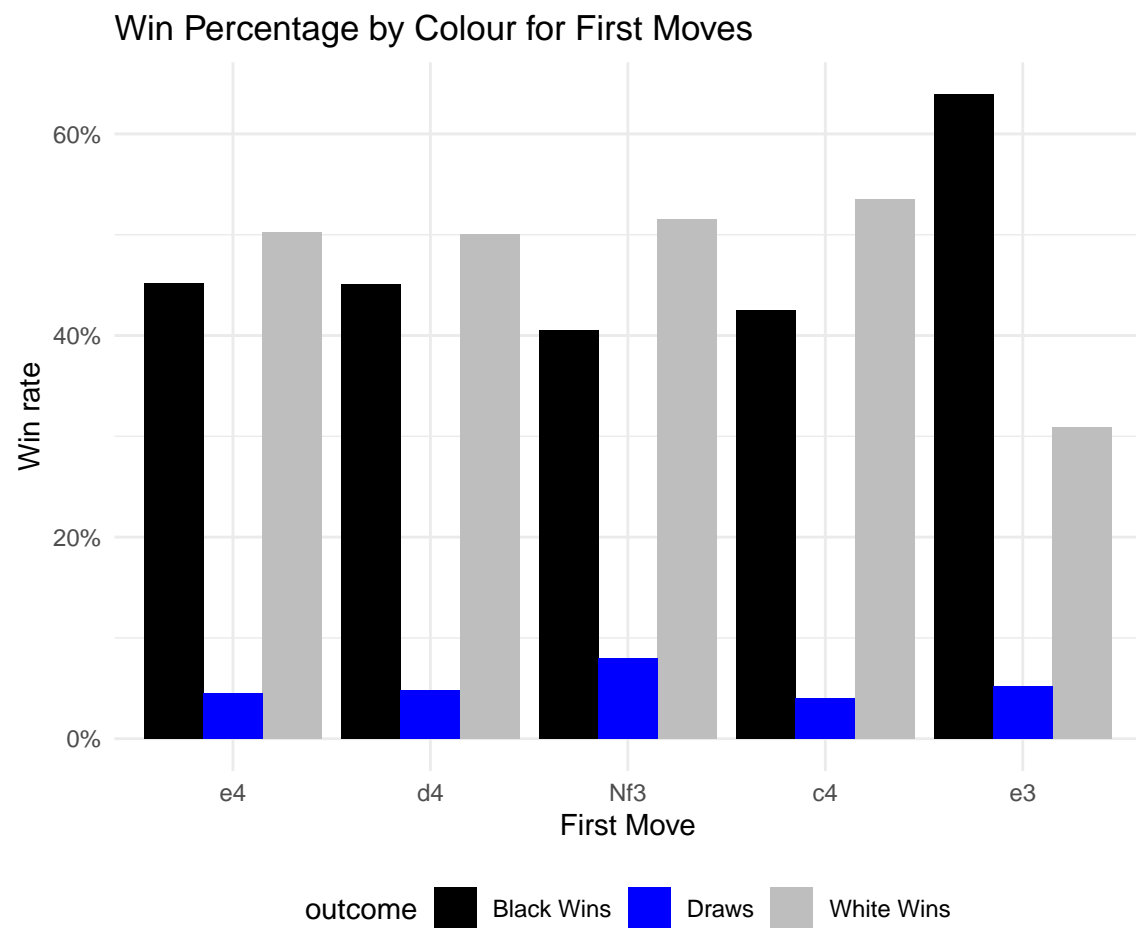
Email address: 21691126@sun.ac.za (Wesley Williams)

You can find my code on my Github page: <https://github.com/wjwilliams/MLPROJ>

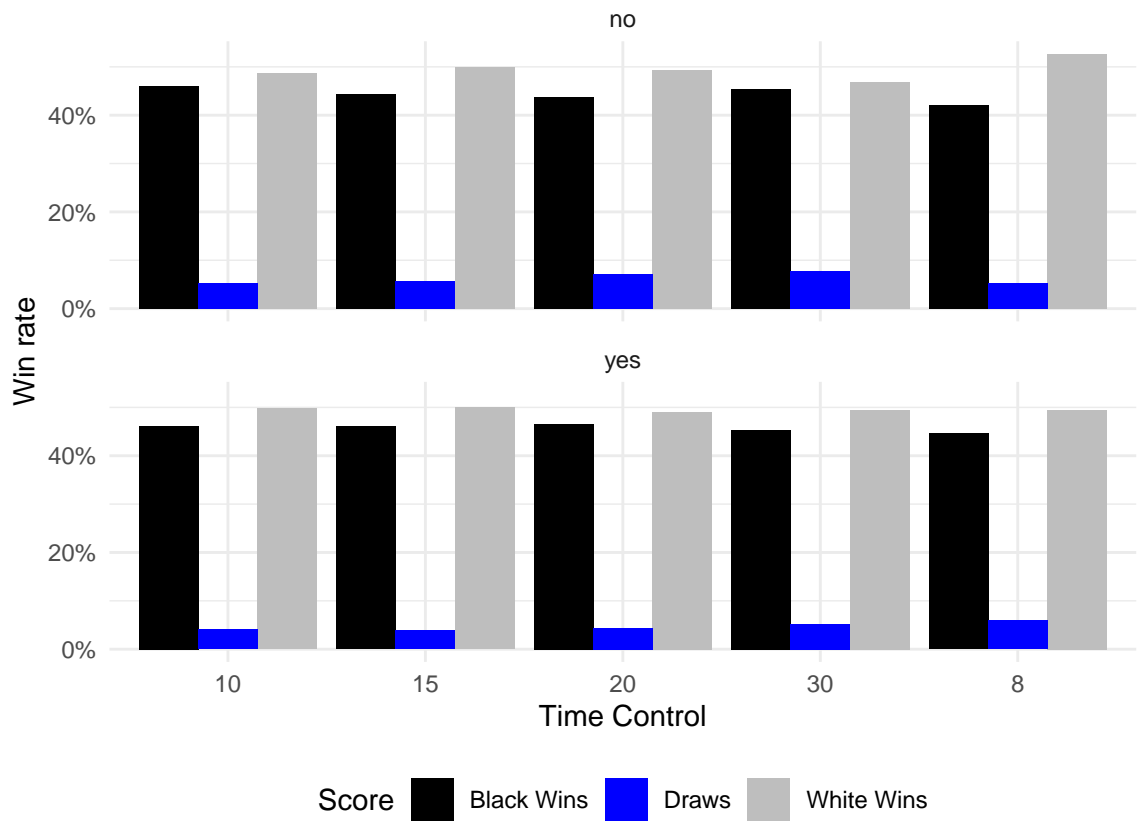
1. Introduction

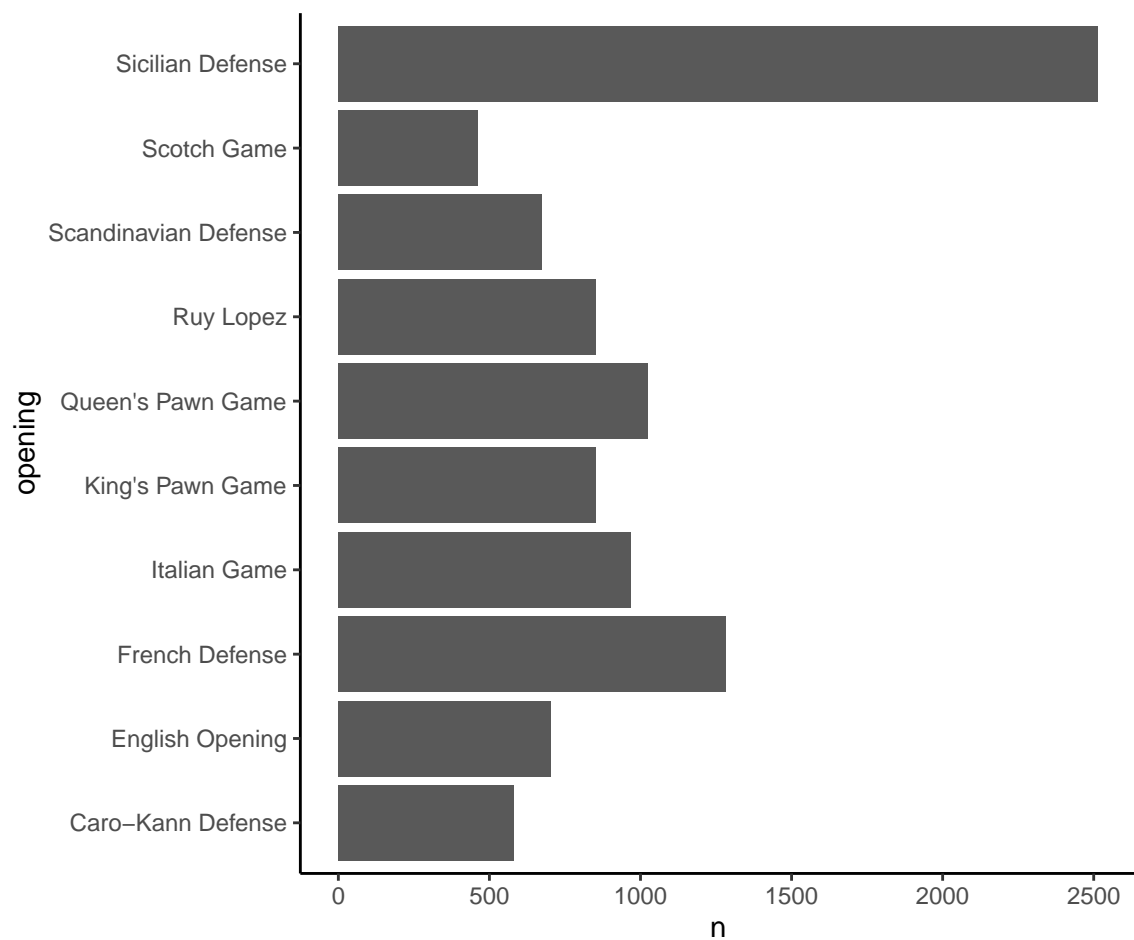
2. Exploratory Data Investigation

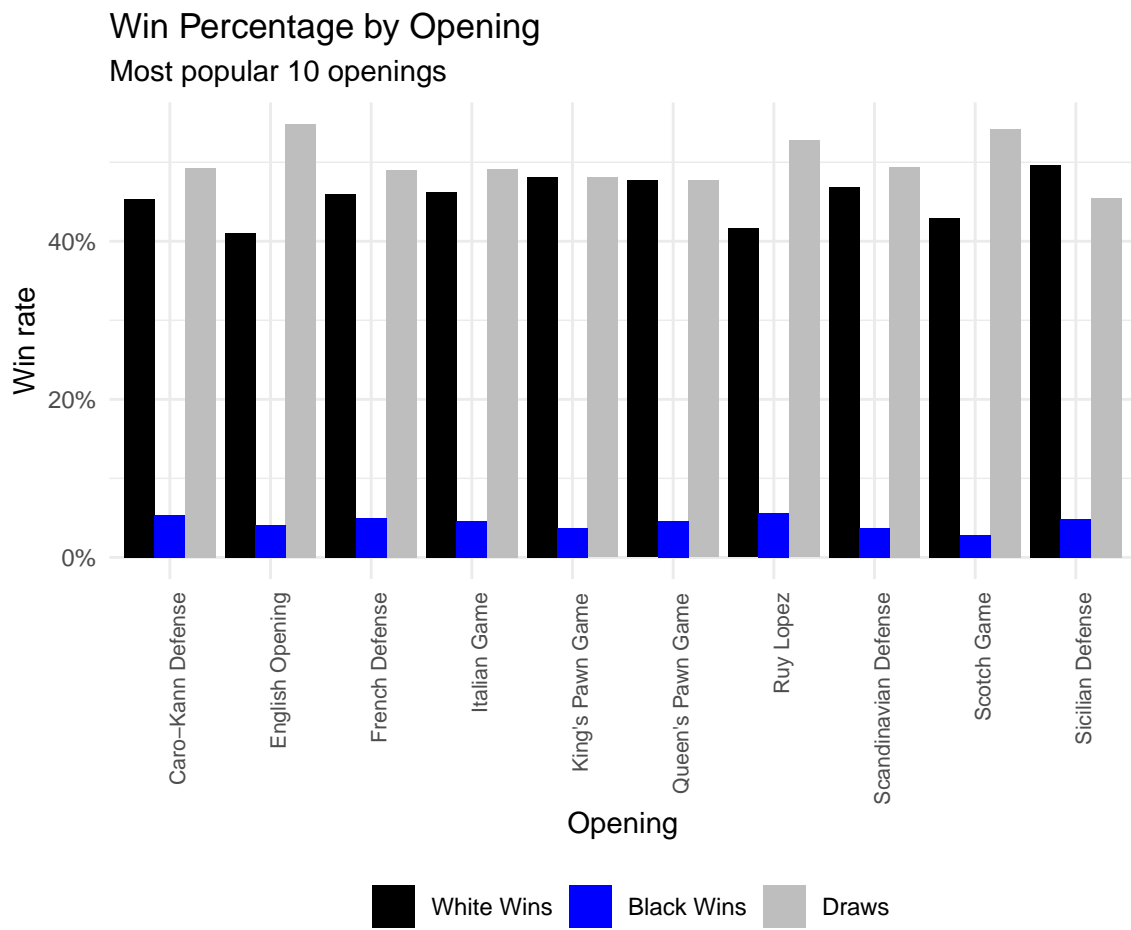


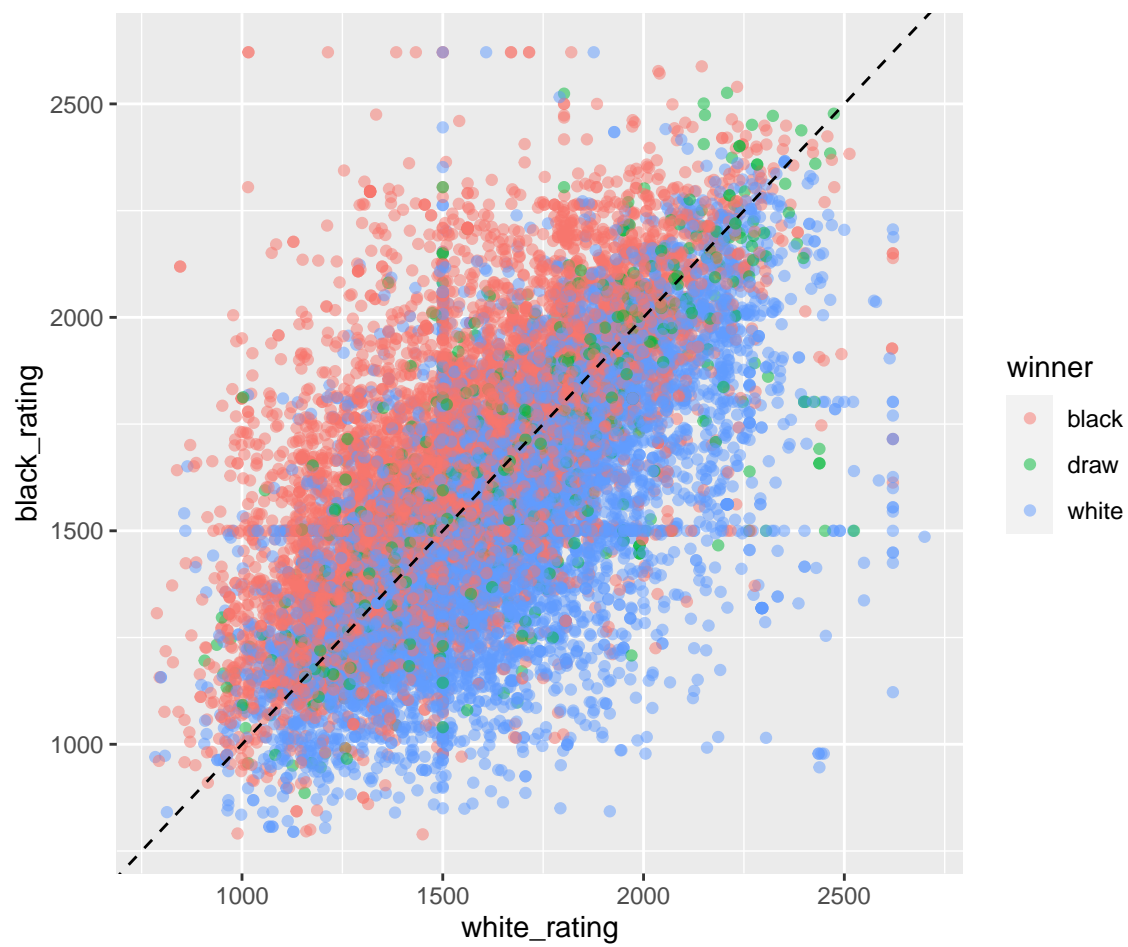


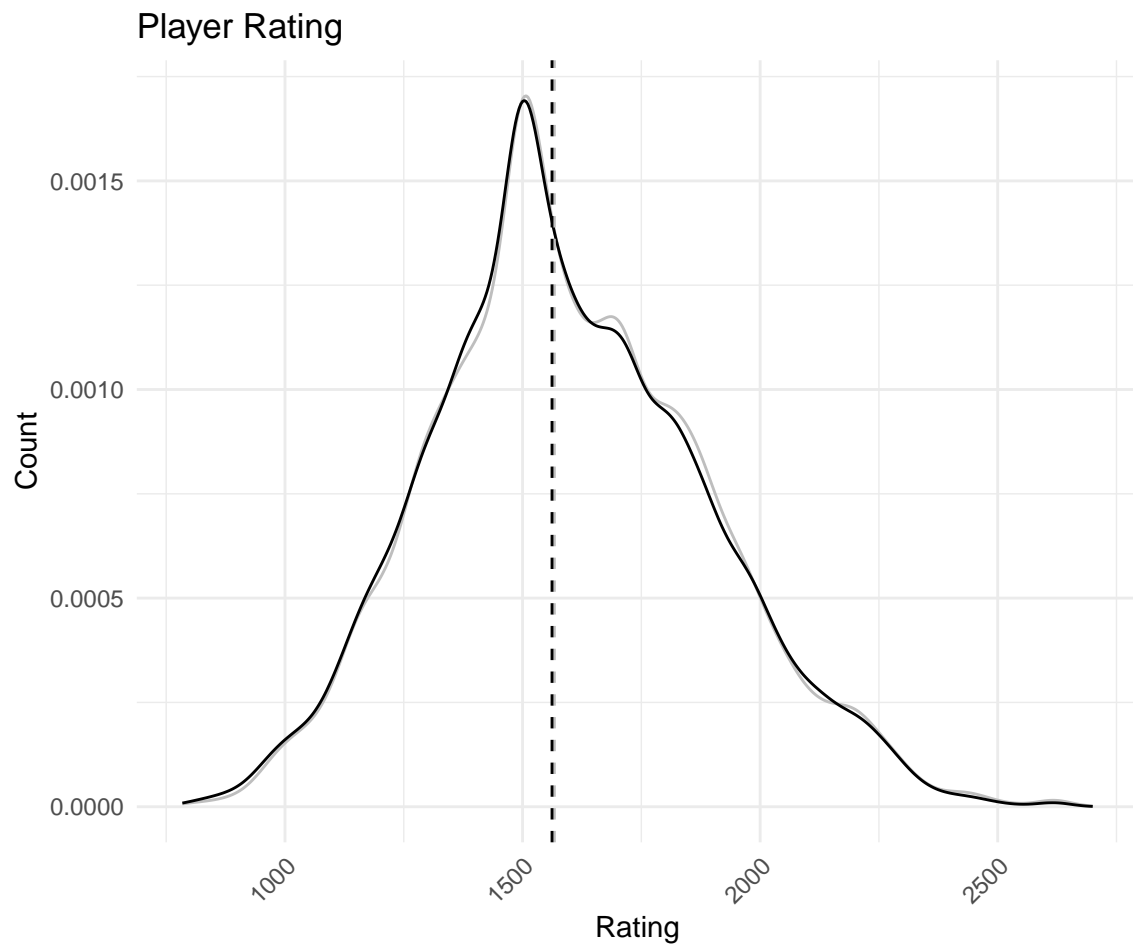
Win Percentage by Time Control
Grouped by increment or not





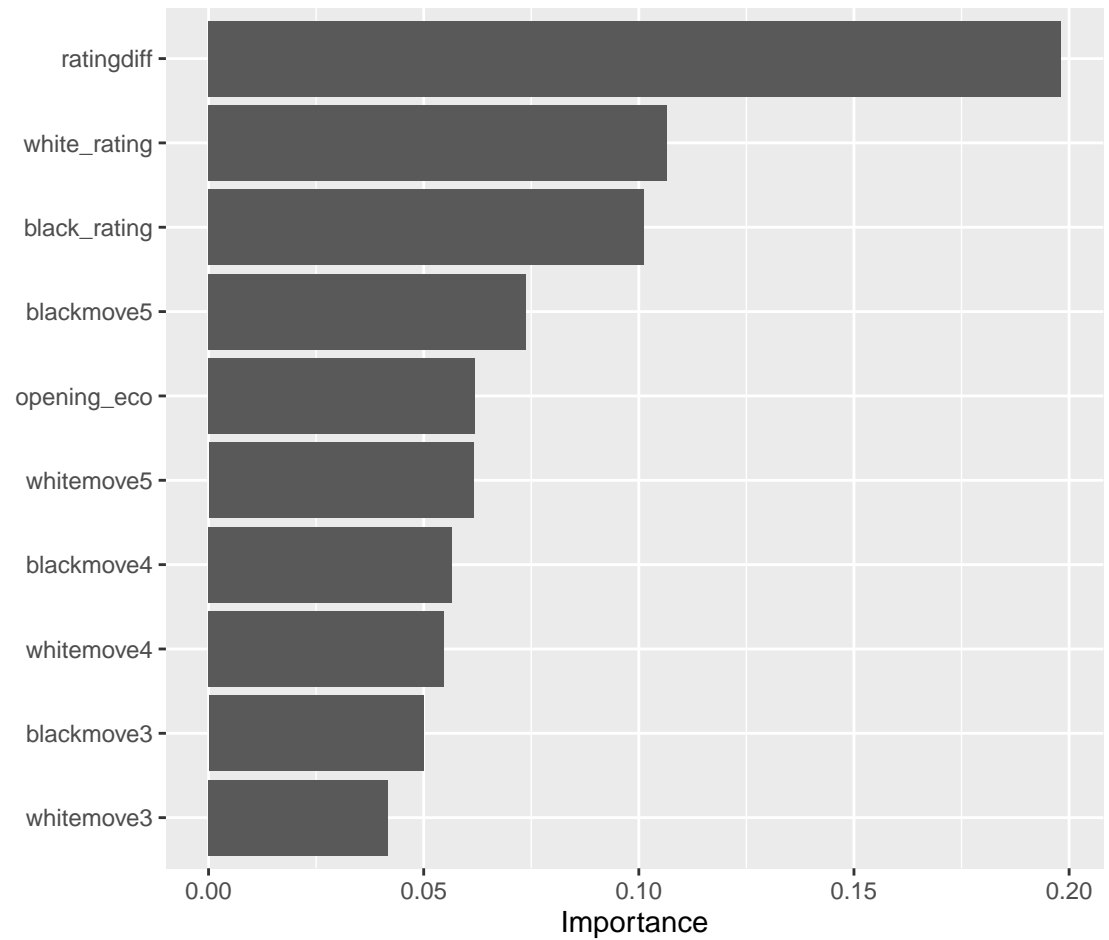






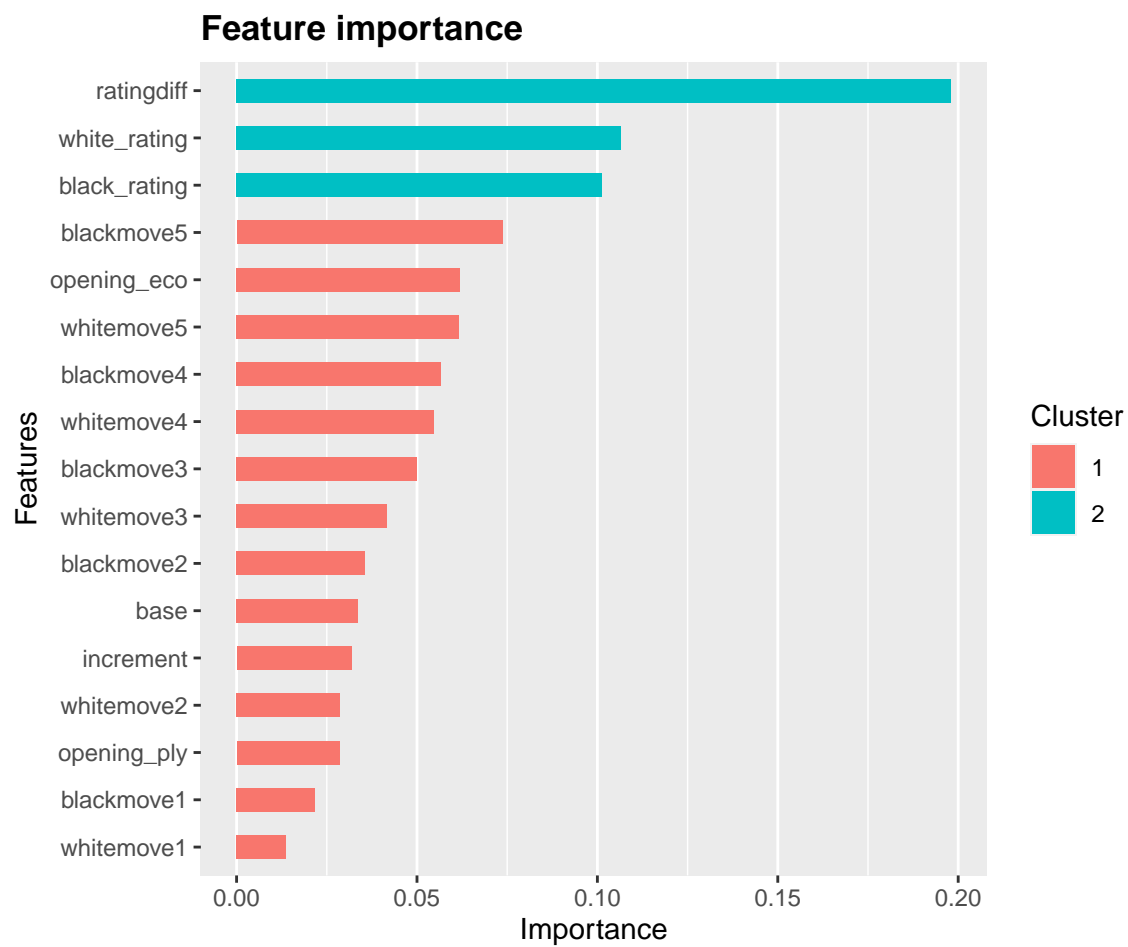
3. Methodology

4. Results



[1] 0.6104231

	Feature	Gain	Cover	Frequency
1	ratingdiff	0.20	0.17	0.12
2	white_rating	0.11	0.15	0.12
3	black_rating	0.10	0.15	0.12
4	blackmove5	0.07	0.08	0.08
5	opening_eco	0.06	0.06	0.07
6	whitemove5	0.06	0.06	0.07
7	blackmove4	0.06	0.05	0.06
8	whitemove4	0.05	0.05	0.06
9	blackmove3	0.05	0.04	0.05
10	whitemove3	0.04	0.03	0.04
11	blackmove2	0.04	0.03	0.04
12	base	0.03	0.03	0.03
13	increment	0.03	0.02	0.03
14	whitemove2	0.03	0.02	0.03
15	opening_ply	0.03	0.02	0.03
16	blackmove1	0.02	0.02	0.02
17	whitemove1	0.01	0.01	0.01



	black	draw	white
black	1618	115	997
draw	13	29	11
white	1009	120	1902