

The Starting Lineup



A better way to play fantasy football for novices

Robert Hill

My weekly strategy

PLAYERS	WK 14		PASSING				RUSHING			RECEIVING			TOTAL
PLAYER, TEAM POS	OPP	STATUS ET	C/A	YDS	TD	INT	RUSH	YDS	TD	REC	YDS	TD	PTS
<u>Le'Veon Bell</u> , Pit RB 📄	<u>Bal</u>	<u>Sun 8:30</u>	0/0	0	0	0	22.3	88.1	0.5	4.6	34.1	0.2	20.8
<u>Antonio Brown</u> , Pit WR 📄	<u>Bal</u>	<u>Sun 8:30</u>	0/0	0	0	0	0.1	0.9	0	7.3	98.2	0.5	20.3
<u>LeSean McCoy</u> , Buf RB 📄	<u>Ind</u>	<u>Sun 1:00</u>	0/0	0	0	0	18.9	79.9	0.6	3.8	31	0.2	19.5
<u>Tom Brady</u> , NE QB 📄	<u>@Mia</u>	<u>Mon 8:30</u>	23.6/35.6	278.9	2	0.5	2.1	2.7	0.1	0	0	0	18.7
<u>Melvin Gordon</u> , LAC RB 📄	<u>Wsh</u>	<u>Sun 4:05</u>	0/0	0	0	0	18.9	77.2	0.6	3.4	28	0.2	18.7
<u>Mark Ingram</u> , NO RB 📄🏈	<u>@Atl</u>	<u>Thu 8:25</u>	0/0	0	0	0	16.3	78.3	0.7	3.6	23.8	0.1	18.4
<u>Alex Smith</u> , KC QB 📄	<u>Oak</u>	<u>Sun 1:00</u>	21.5/32.6	248.1	1.5	0.2	3.9	19.2	0.1	0	0	0	18.3
<u>Carson Wentz</u> , Phi QB 📄	<u>@LAR</u>	<u>Sun 4:25</u>	21.4/35.5	249	2	0.7	3.7	14.1	0.1	0	0	0	18
<u>Matthew Stafford</u> , Det QB 📄🏈	<u>@TB</u>	<u>Sun 1:00</u>	22.9/35.7	273.6	2	0.8	2.2	8.5	0.1	0	0	0	17.9
<u>Alvin Kamara</u> , NO RB 📄🏈	<u>@Atl</u>	<u>Thu 8:25</u>	0/0	0	0	0	9.1	45.4	0.4	5.2	45.7	0.2	17.7

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This is not a successful strategy

My past records:

- 5-9-0 (9th place)
- 7-8-0 (6th place)

Data Acquisition



- Game summaries by player (2013-2017)
- Team defense statistics

Data Acquisition



- Game summaries by player (2013-2017)
- Team defense statistics



- Weekly fantasy point projections by player (2017)

Data Acquisition



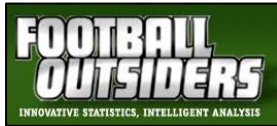
- Game summaries by player (2013-2017)
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- Weekly fantasy point projections by player (2017)



- Weekly FanDuel salaries (2013-2017)



- Weekly snap counts (2013-2017)



- Game day weather conditions (2013-2017)

Data Acquisition



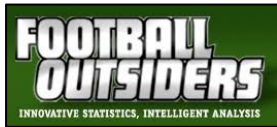
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- Game day weather conditions (2013-2017)

- Focus on key offensive positions
 - **Quarterbacks (QB)**
 - **Running backs (RB)**
 - **Wide Receivers (WR)**
 - **Tight Ends (TE)**

Data Acquisition



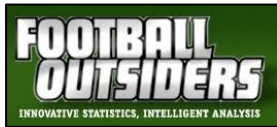
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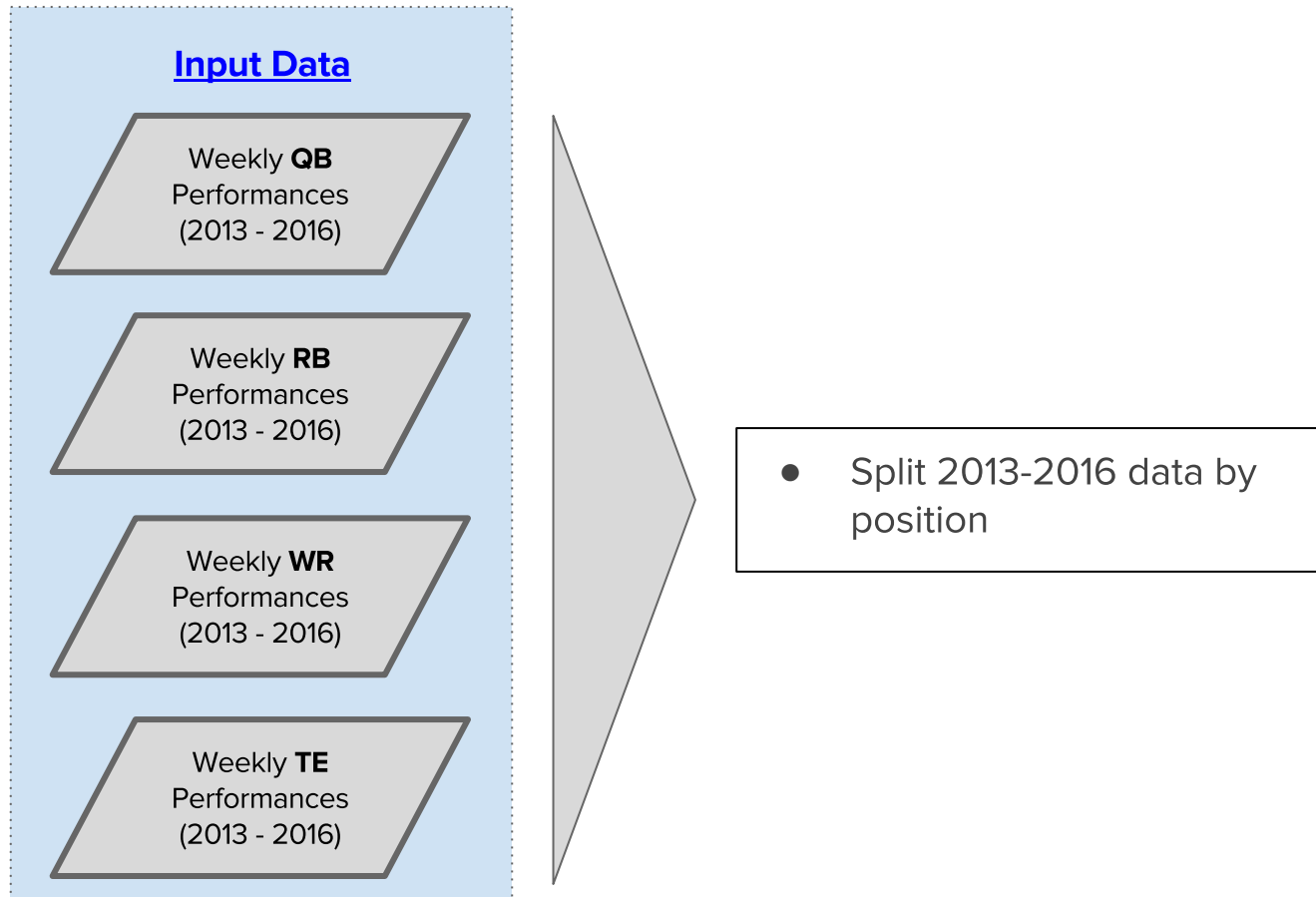


- Game day weather conditions (2013-2017)

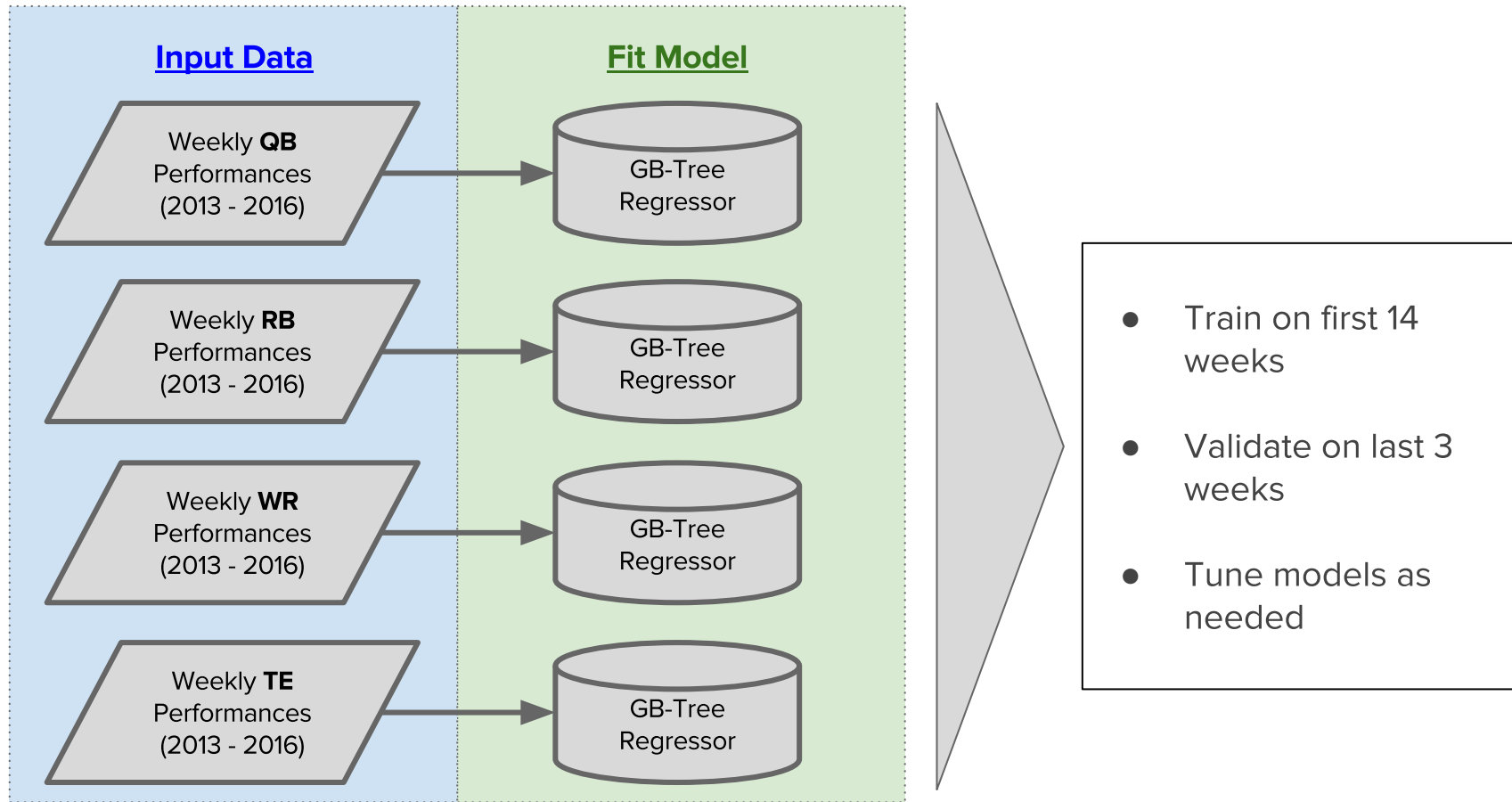
- Focus on key offensive positions
 - Quarterbacks (QB)
 - Running backs (RB)
 - Wide Receivers (WR)
 - Tight Ends (TE)
- ~ **12,000** observations (each player performance 2013 - present)
- **45** features and interactions across position categories

Pipeline

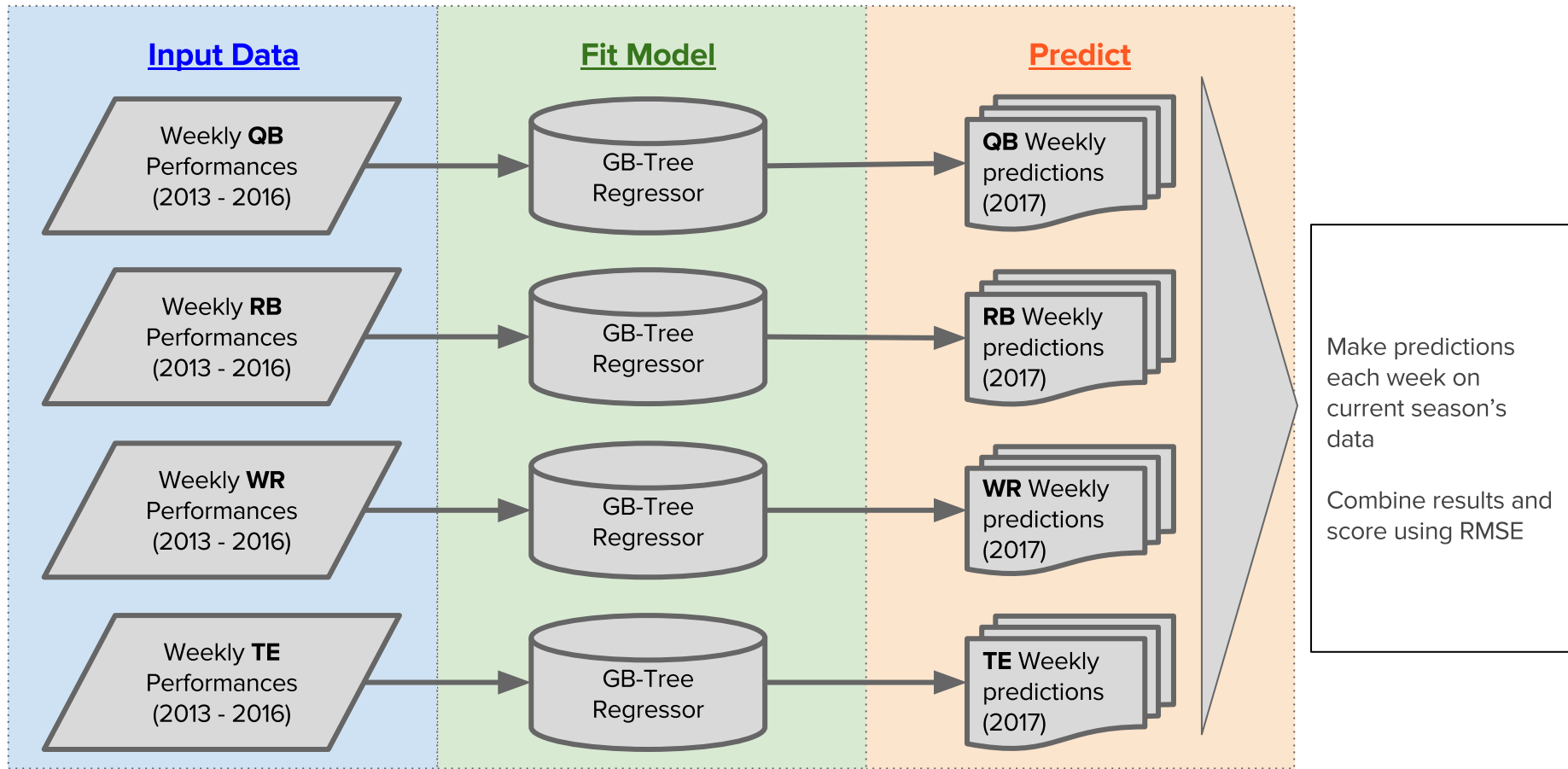
Pipeline



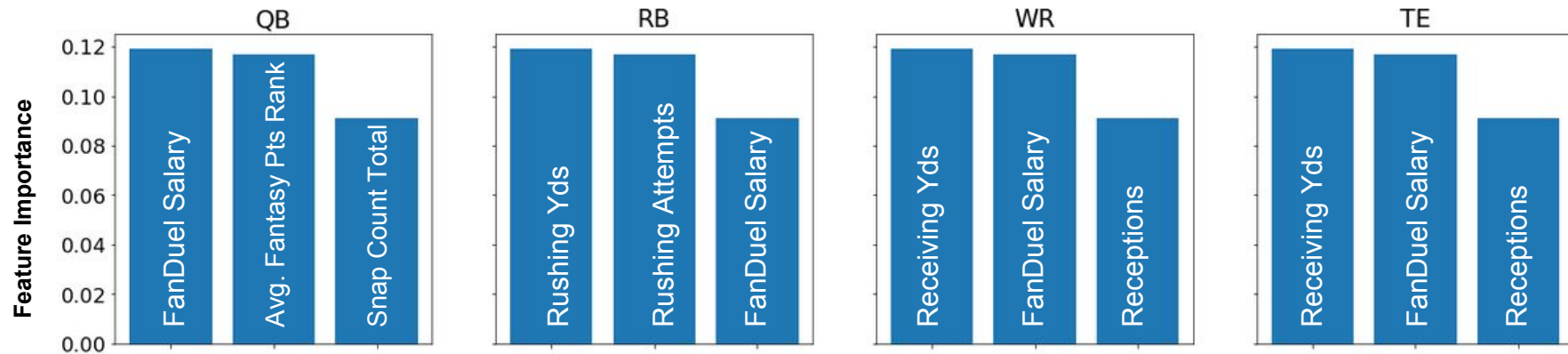
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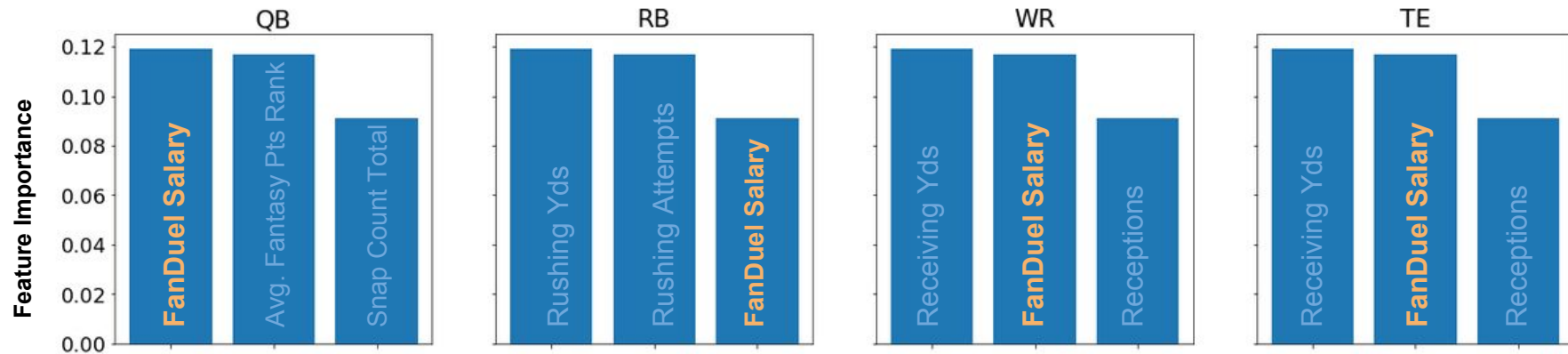
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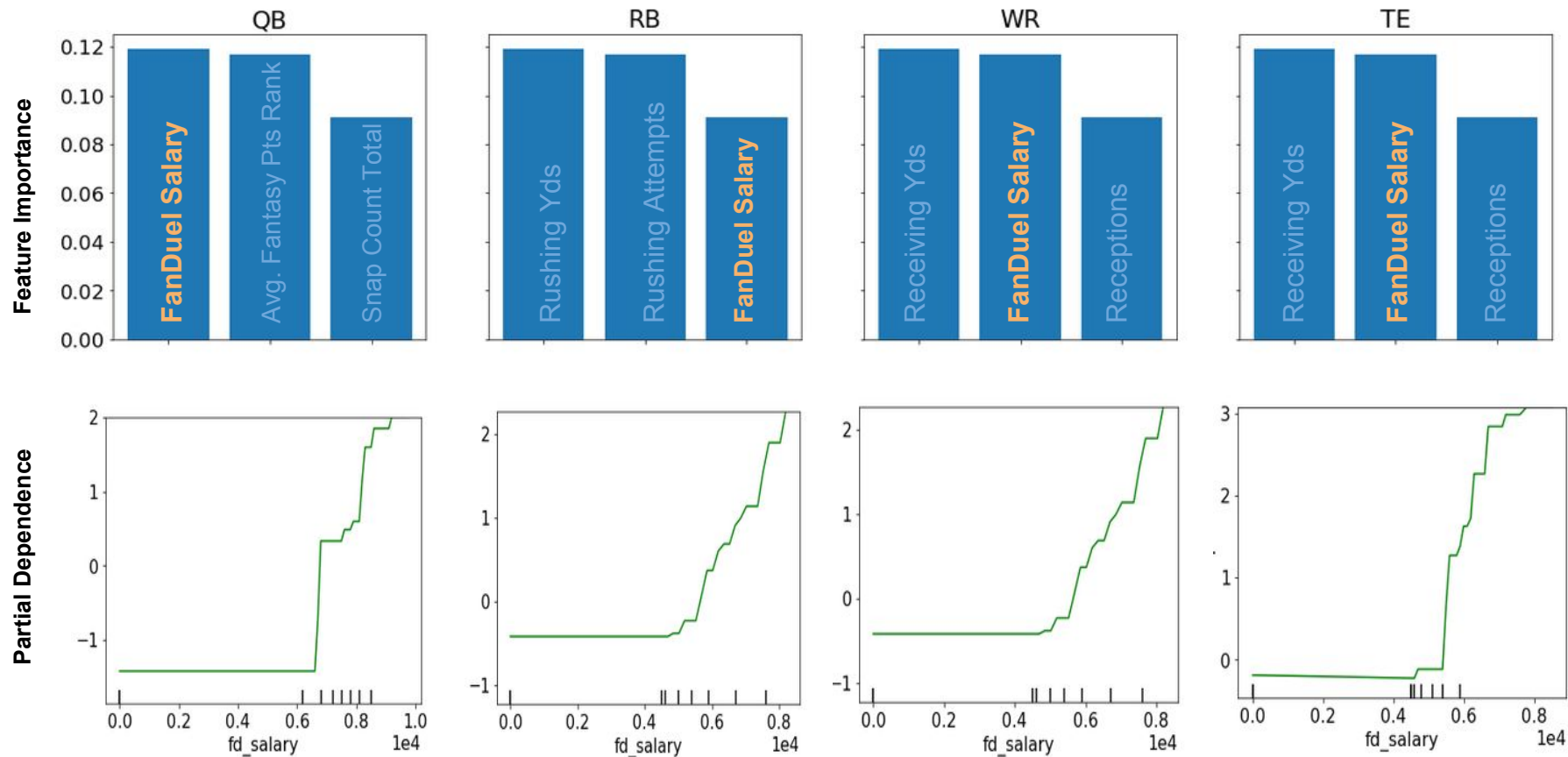
Key Features



Key Features

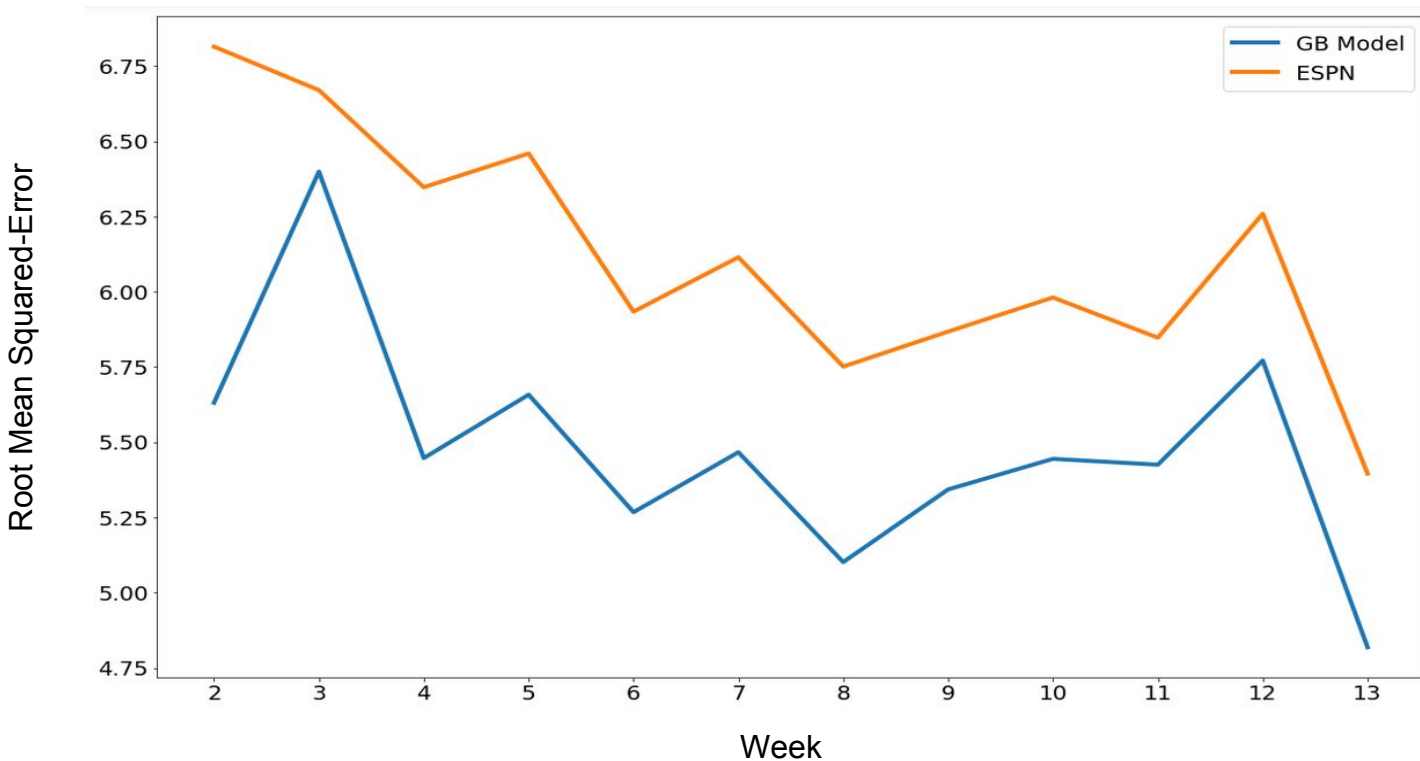


Key Features



Results (Current NFL Season)

- **My Model:** Season Average RMSE = 5.5 points, Average $R^2 = 0.4$
- **ESPN Projections:** Season Average RMSE = 6.1 points, Average $R^2 = 0.2$



Thank you!

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