W209 Midterm Presentation

Football Fantasy League Helper

Michelle Liu, David Jablonski, Shane Conner

Domain

- Draft and manage roster
  - NFL players
  - (16) positions
- Select Starters
  - (1) Quarterback
  - (2) Runningbacks
  - (2) Wide Receivers
  - (1) Tight End
  - (1) FLEX (RB, WR, or TE)
  - (1) Placekicker
  - (1) Defense
- Score Points
  - Reflective of actual player performance
- Compete head-to-head
  - 10 Teams (Typical)
  - Top score wins
  - Isolated to match up

Users

- Any participant of Fantasy Football
- New Users
    - Simplifying Football data in comprehensible, familiar terms
    - Overcome disadvantages due to inexperience --bridge the gap.
- Veteran users
    - Interested in exploring the Fantasy Football data through a different view
    - Assist in substantiating educated decisions

Tasks

- Aggregate player data
  - “Wisdom of the crowd”
  - Average Projected Points
  - Lower & Upper Point Intervals
  - Consensus Position Rank
- Feature Engineer
  - Value Over Replacement (VOR)
- Exploration
  - Allow users to set visualization views
- Search and Filter
  - Search for specific players
  - Filter irrelevant data

Data

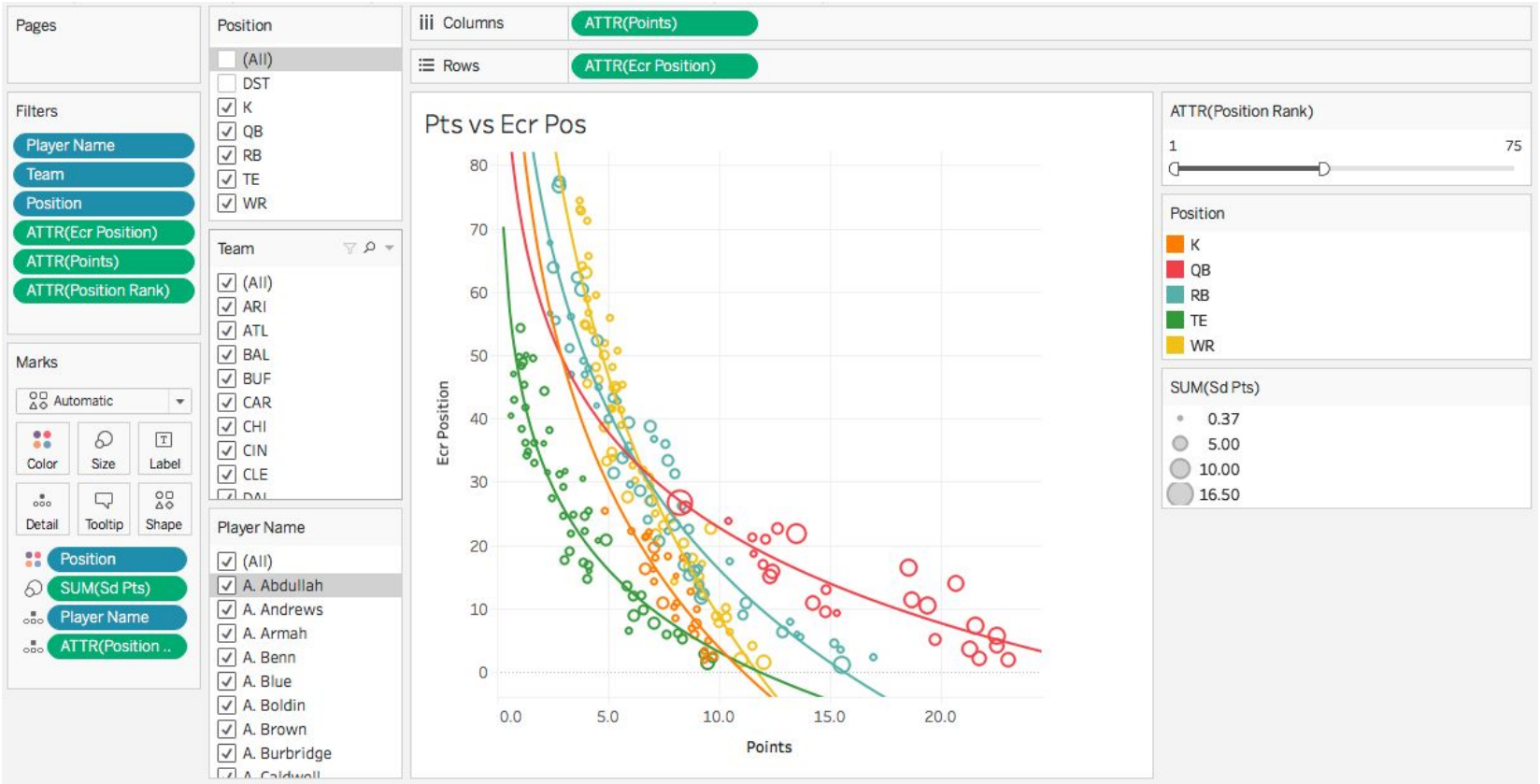
- Generated our dataset from a R package that scrapes and aggregates player data from various websites

player	position	team	playerId	birthdate	points	lower	upper	sdPts	positionRank	dropoff	tier	exp	ecrPosition	sdRank	risk
49ers	DST	SF	100029		5.20284068	3.8	6.1196	0.986641	31	0.650770	25	47	25.1	1.2	1.549
A.J. Derby	TE	DEN	2552580	1991-09-20	2.98926576	1.63	4.0587	1.070147	32	0.090140	10	2	24.5	3	5.837
A.J. Green	WR	CIN	2495450	1988-07-31	10.9770673	0	14.962	5.041667	4	0.551047	2	6	1.8	0.7	6.468
AJ McCarron	QB	CIN	2543497	1990-09-13	0.10938477	-0.016973	0.2338	0.174760	58	0.039672	16	3			3.853
Aaron Burbridge	WR	SF	2555362	1993-12-23	0.76860199	0	1.1774	1.000722	150	0.025079	11	1			4.773
Aaron Dobson	WR	FA	2539256	1991-07-23	0	0	0		193	0	18	4			
Aaron Green	RB	FA	2556541	1992-10-15	0	0	0	0	142	0	13	1			3.665
Aaron Jones	RB	GB	2558116	1994-12-02	0.72866574	0	1.0968	0.919489	103	0.017557	11	0			4.772
Aaron Murray	QB	FA	2543587	1990-11-10	0	0	0	0	67	0	28	3			3.784
Aaron Ripkowski	RB	GB	2552477	1992-12-20	0.80275291	0	1.4664	1.201264	101	0.059788	11	2			5.111
Aaron Rodgers	QB	GB	2506363	1983-12-02	16.6610584	0	25.524	21.69275	12	0.759700	4	12			12.42
Adam Humphries	WR	TB	2553895	1993-06-24	4.47461729	3.3942504	5.1981	0.697924	57	0.053480	8	2	59.5	5.5	4.382
Adam Shaheen	TE	CHI	2558144	1994-01-01	1.33250488	0.528	1.7015	0.657347	51	0.033352	12	0	50	2.7	5.060

Iterations of Design

- Decided to go with Tableau
- Variables to include in the visualization:
  - Projected Points
  - Ranking
  - Name
  - Team
  - Position
  - Value Over Replacement
  - Standard deviation of projected points

Experimenting with our data



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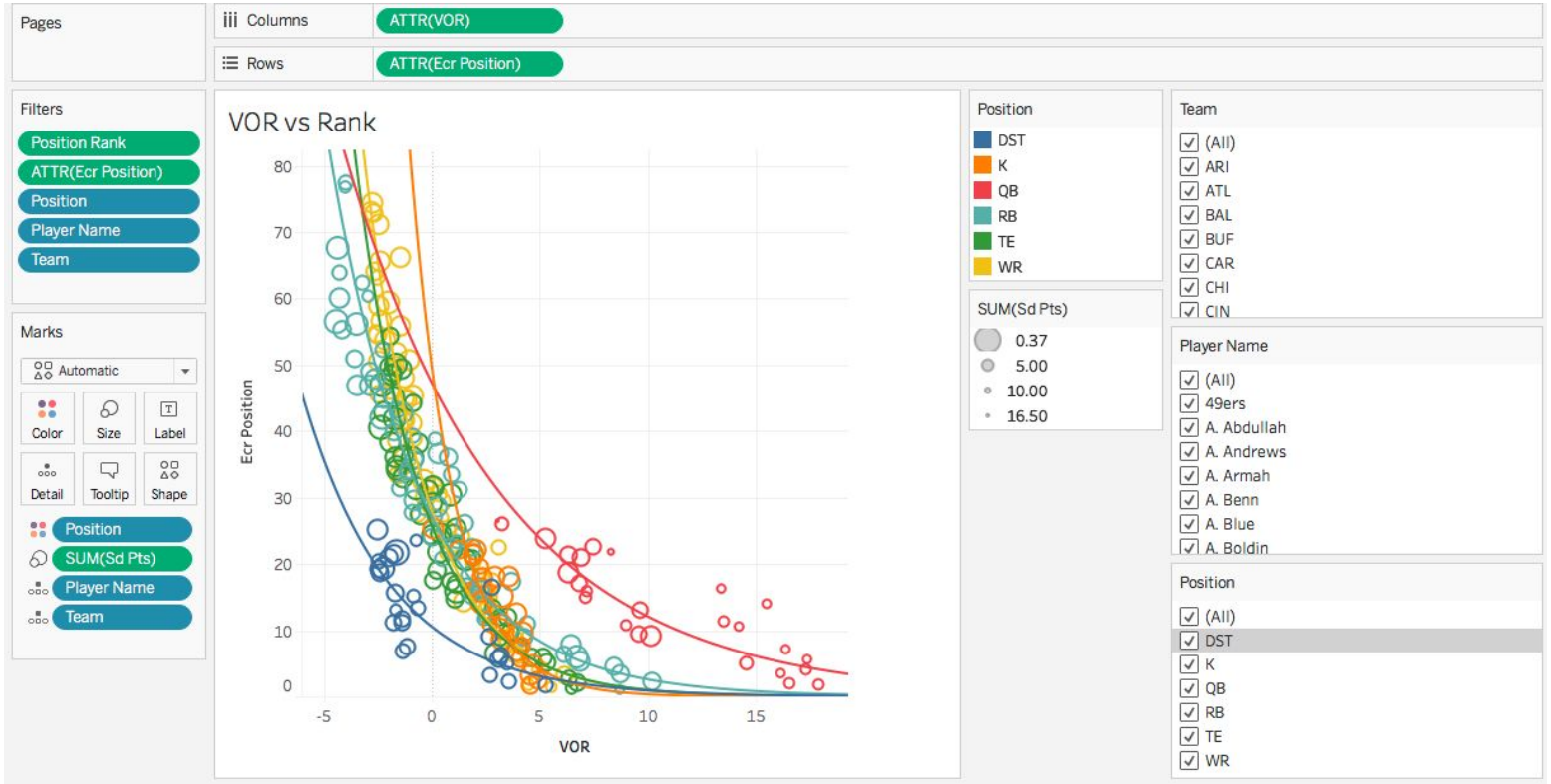
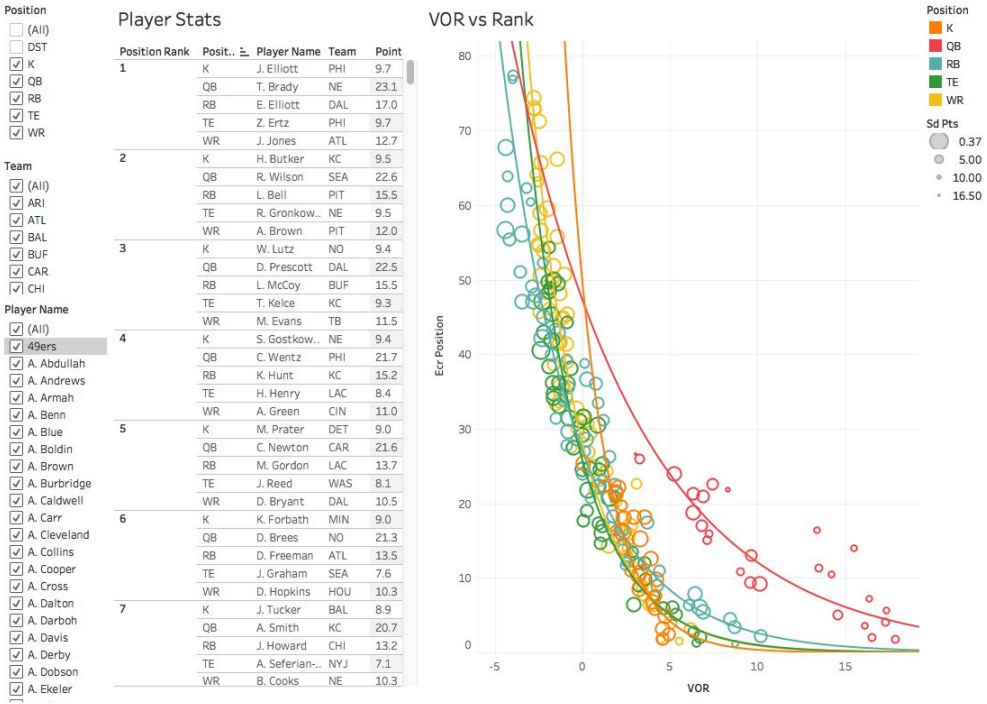


Current Dashboard



Testing Plan

- Options for User Testing that were not elected
  - Originally using a web-based User Testing site like usertesting.com
  - Looked at using Tableau Online

- Plan for User Testing
  - Test Subjects
    - 5-10 MIDS students who have Tableau or can download Tableau Reader
    - Mix of New and Veteran Users
  - Delivery
    - Use ISVC Meeting to share User screen
    - Step 1 - Guided discussion through the dashboard
    - Step 2 - User is given a flex player scenario and asked to provide recommendation

Questions & Feedback

Please email any questions and feedback about our project to:

michelleliu103@berkeley.edu

shane.conner@berkeley.edu

david.jablonski@berkeley.edu