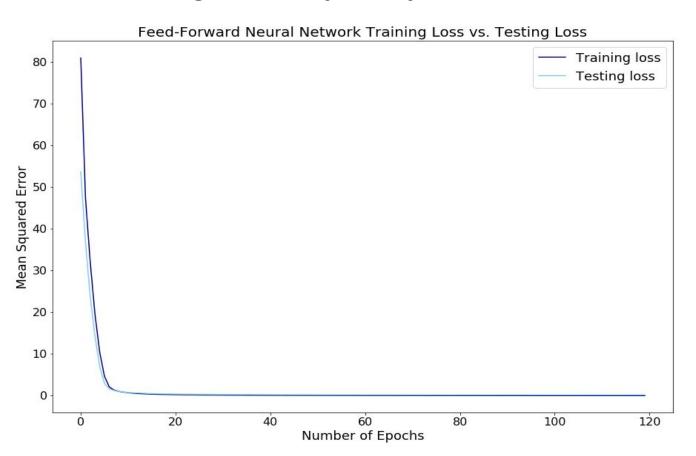
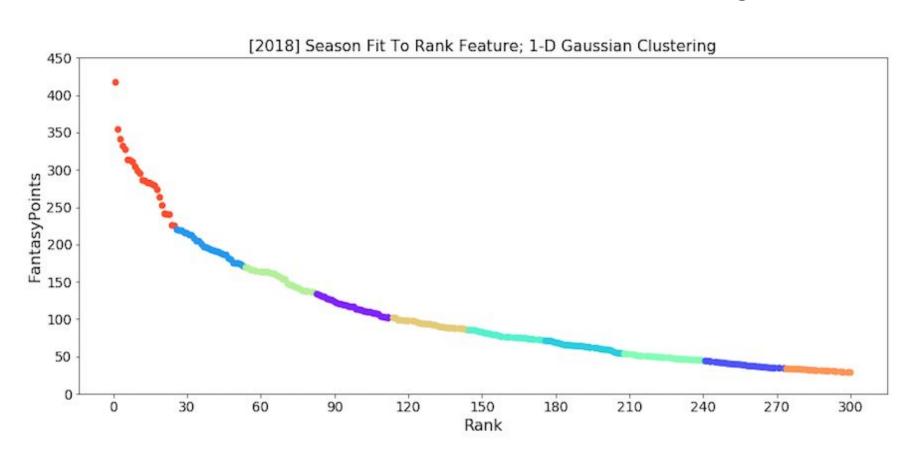
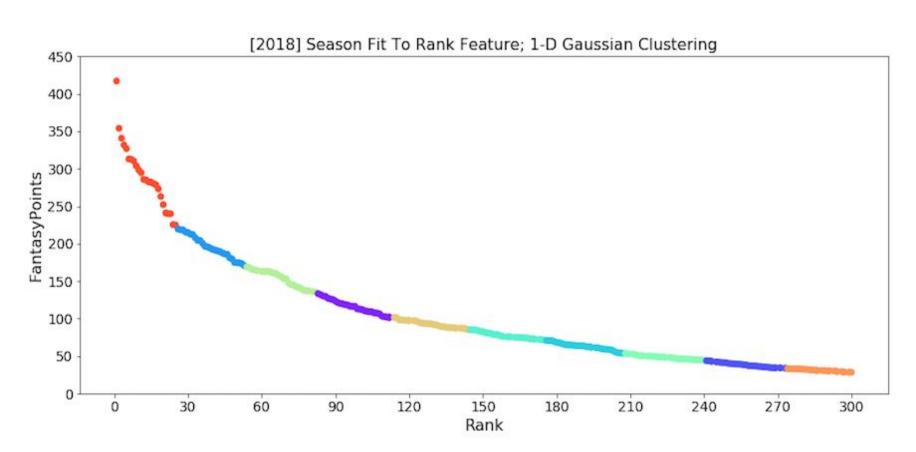
Data-Driven Fantasy Football Draft

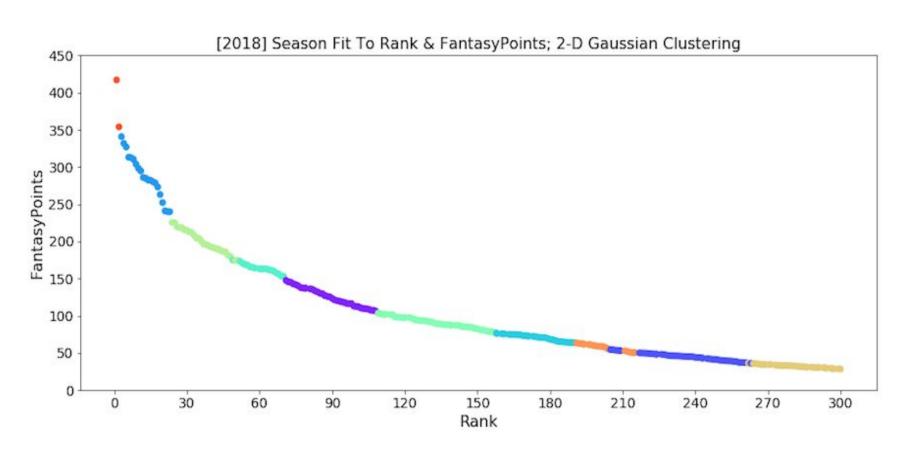
- 1) Grouping Top Draft Candidates Clustering (GMM)
- 2) Predicting Performance Deep Learning (FFNN)
- 3) Intuition
 - 4) Results

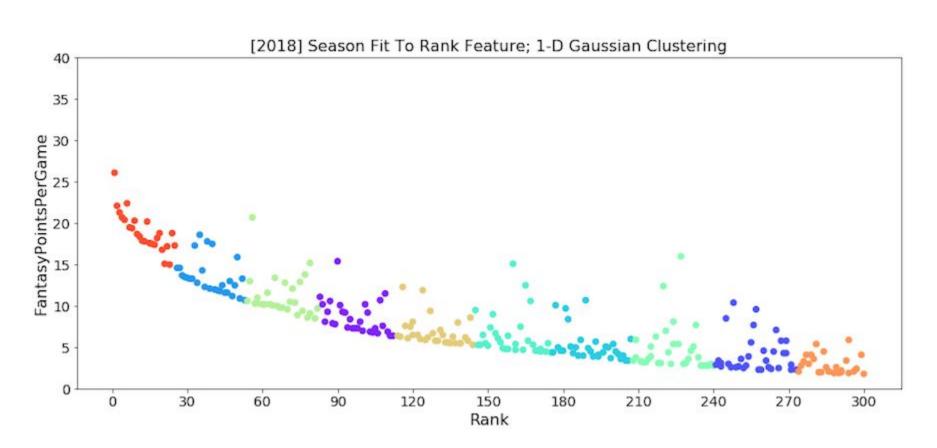
Predicting Weekly Player Performance

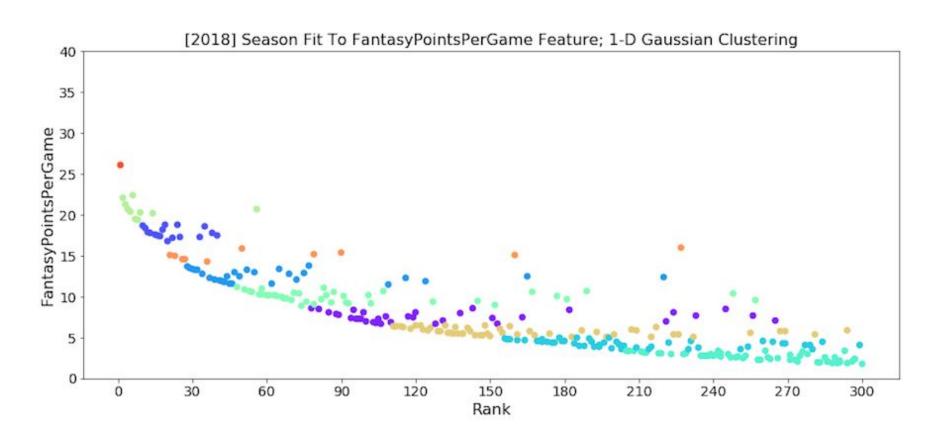


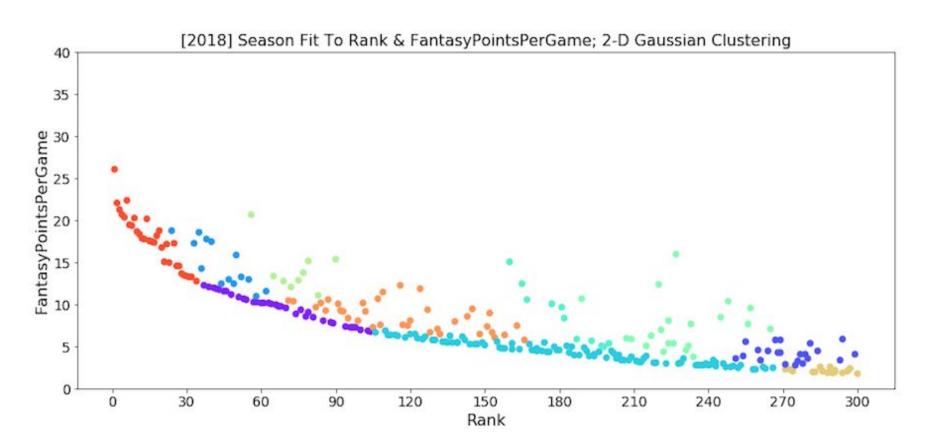












Player Analysis - Top Tier

Name

Mitch Trubisky

Ezekiel Elliott

Tyreek Hill

Baker Mavfield

Eli Manning

James Conner

Antonio Brown

Davante Adams

DeAndre Hopkins

Derek Carr

Case Keenum

Julio Jones

Matthew Stafford

Mike Evans

Position

QB

RB

WR

QB

QB

RB

WR

WR

WR

QB

QB

WR

QB

WR

Played

18.8

16.8

15.1

17.2

15.0

17.3

14.6

14.6

13.7

13.5

13.4

13.3

13.3

12.8

14

15

16

14

16

13

15

15

16

16

16

16

16

16

FantasyPointsPerGame

FantasyPoints

263.02

252.20

241.00

240.10

239.96

225.00

219.70

218.60

218.50

215.76

214.90

212.90

212.18

204.40

Name	Position	Played	FantasyPointsPerGame	FantasyPoints
Patrick Mahomes	QB	16	26.1	417.08
Matt Ryan	QB	16	22.1	353.96

FantasyPoints

340.86

331.70

326.92

313.10

312.58

310.32

303.98

298.42

294.80

285.86

285.02

282.60

282.12

280.30

278.50

273.20

FantasyPointsPerGame

Name

Ben Roethlisberger

Deshaun Watson

Andrew Luck

Todd Gurley

Aaron Rodgers

Jared Goff

Drew Brees

Russell Wilson

Saquon Barkley

Dak Prescott

Philip Rivers

Cam Newton

Kirk Cousins

Tom Brady

Christian McCaffrey

Alvin Kamara

Position

QB

QB

QB

RB

QB

QB

QB

QB

RB

QB

QB

QB

QB

QB

RB

RB

Played

16

16

16

14

16

16

15

16

16

16

16

14

16

16

16

15

21.3

20.7

20.4

22.4

19.5

19.4

20.3

18.7

18.4

17.9

17.8

20.2

17.6

17.5

17.4

18.2

Player Analysis - Consistent Moderate Impact

Name	Position	Played	FantasyPointsPerGame	FantasyPoints
David Johnson	RB	16	12.3	196.60
Adam Thielen	WR	16	12.1	194.30
Travis Kelce	TE	16	12.0	191.60
Michael Thomas	WR	16	11.9	190.50
James White	RB	16	11.8	189.60
Derrick Henry	RB	16	11.6	186.36
JuJu Smith-Schuster	WR	16	11.6	185.90
Robert Woods	WR	16	11.2	179.60
Nick Chubb	RB	16	10.9	174.50

Name	Position	Played	FantasyPointsPerGame	FantasyPoints	Name	Position	Played	FantasyPointsPerGame
George Kittle	TE	16	10.7	170.70	Kenny Golladay	WR	15	9.1
Adrian Peterson	RB	16	10.6	169.00	Jarvis Landry	WR	16	8.5
Tyler Lockett	WR	16	10.3	165.40	Douten Doubou	DD	16	0.1

164.30

163.20

163.10

162.94

161.60

160.00

157.54

156.20

153.20

142.80

140.40

137.20

10.3

10.2

10.2

10.2

10.1

10.0

9.8

9.8

9.6

8.9

9.4

8.6

16

16

16

16

16

16

16

16

16

16

15

16

Zach Ertz

Brandin Cooks

Keenan Allen

Tarik Cohen

Tevin Coleman

Jordan Howard

Lamar Jackson

Eric Ebron

Kenyan Drake

Calvin Ridley

Amari Cooper

Mike Williams

TE

WR

WR

RB

RB

RB

QB

TE

RB

WR

WR

WR

Peyton Barber

Chris Godwin

Jared Cook

Corey Davis

Larry Fitzgerald

Sterling Shepard

Mohamed Sanu

Adam Humphries

Latavius Murray

Zay Jones

RB

WR

TE

WR

WR

WR

WR

WR

RB

WR

16

16

16

16

16

16

16

16

16

16

8.1

7.9

7.8

7.4

7.3

7.3

7.3

7.0

6.9

6.8

FantasyPoints

137.10

136.12

130.30

126.20

125.60

118.60

116.68

116.50

116.40

112.70

109.90

109.20

Player Analysis - Low Risk Depth Picks

Priority Running Backs & Wide Receivers

Running Backs: W			ide Receivers:			
1)	Todd Gurley	1)	Tyreek Hill			
2)	Saquon Barkley	2)	Antonio Brown			
3)	Christian McCaffrey	3)	Davante Adams			
4)	Alvin Kamara	4)	DeAndre Hopkins			
5)	Ezekiel Elliott	5)	Julio Jones			
6)	James Conner	6)	Mike Evans			
7)	David Johnson	7)	Adam Thielen			
8)	James White	8)	Michael Thomas			
9)	Derrick Henry	9)	JuJu Smith-Schuster			
0)	Nick Chubb	10)	Robert Woods			

Priority Quarterbacks & Tight Ends

Quarterbacks:

- 1) Patrick Mahomes
- 2) Matt Ryan
- 3) Ben Roethlisberger
- 4) Deshaun Watson5) Andrew Luck
- 6) Aaron Rodgers
- 7) Jared Goff
- 8) Drew Brees
- 9) Russell Wilson
- 10) Dak Prescott

Tight Ends:

- 1) Travis Kelce
- 2) George Kittle
- 3) Zach Ertz
- 4) Eric Ebron
- 5) Jared Cook

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Player Analysis - Strong Inconsistent Impact								
Name	Position	Played	FantasyPointsPerGame	FantasyPoints				
Melvin Gordon	RB	12	18.8	225.50				
Josh Allen	QB	12	17.3	208.06				
Kareem Hunt	RB	11	18.6	204.20				
Joe Mixon	RB	14	14.3	200.40	Name	Position	Played	FantasyPointsPerGame

195.78

192.66

187.80

181.40

174.92

174.54

173.22

168.40

164.30

163.00

QB

RB

WR

8

12

12

Ryan Fitzpatrick

Marlon Mack

Odell Beckham Jr

20.7

13.4

12.8

FantasyPoints

165.84

161.10

153.34

Name Melvin Gordon Josh Allen

Jameis Winston

Carson Wentz

Phillip Lindsay

Chris Carson

Marcus Mariota

Andy Dalton

Blake Bortles

Sam Darnold

Stefon Diggs

T.Y. Hilton

QB

QB

RB

RB

QB

QB

QB

QB

WR

WR

11

11

15

14

14

11

13

13

15

14

17.8

17.5

12.5

13.0

12.5

15.9

13.3

13.0

11.0

11.6

Conclusions & Project Expansion

- 1) GMM Clustering Value
- 2) Deep Learning Value
- 3) Next Steps