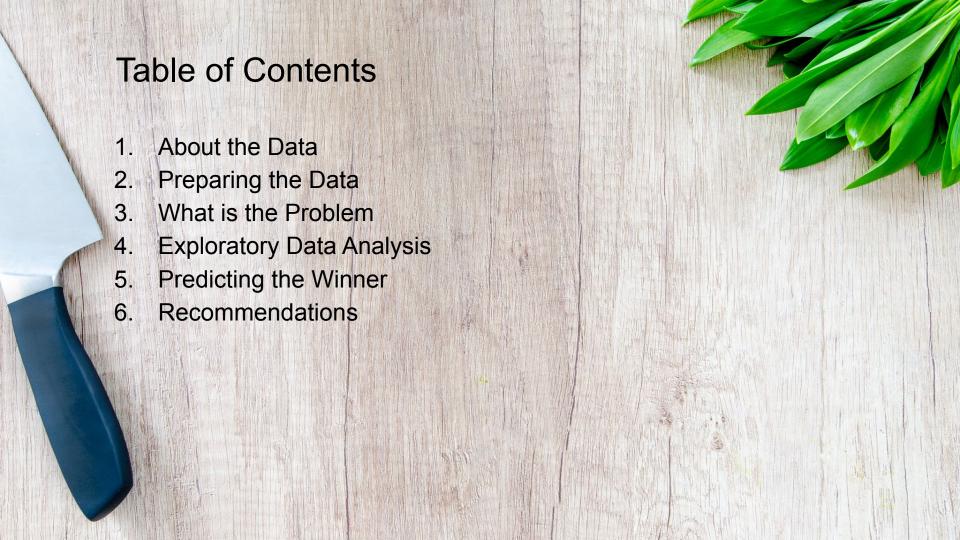


# master Chef Who will win?

By: Theran Meadows





#### About the Data

Compiled from <u>Masterusa.fandom.com/wiki</u>

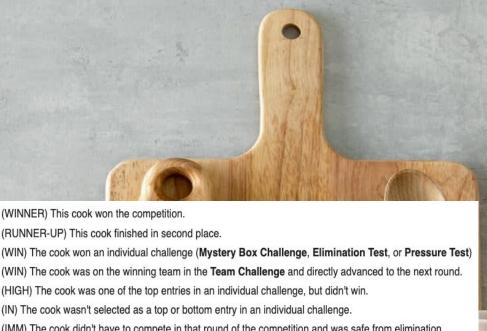
#### Contestant information

- Name
- Age
- Hometown
- Occupation
- Status

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Contestant +	Age +	Hometown +	Occupation +	Status +
Whitney Miller	22	Poplarville, Mississippi	College Student	Winner September 15
David Miller 29		Boston, Massachusetts	Software Engineer	Runner-Up September 15
Lee Knaz 27		27 Venice, California		Eliminated
Sheetal Bhagat	37	Chicago, Illinois	Teacher	September 15
Sharone Hakman	28	Los Angeles, California	Financial Advisor	Eliminated
Mike Kim	34	Redondo Beach, California	Server	September 8
Jake Gandolfo 38		Santa Cruz, California	Construction Worker	
Tracy Nailor	42	Atlanta, Georgia	Doctor	Eliminated September 1
Kim Dung "Slim" Huynh	22	Harvey, Louisiana	College Student	ocpieniber i

#### About the Data





- (WINNER) This cook won the competition.
- (RUNNER-UP) This cook finished in second place.
- (WIN) The cook won an individual challenge (Mystery Box Challenge, Elimination Test, or Pressure Test)
- (HIGH) The cook was one of the top entries in an individual challenge, but didn't win.
- (IN) The cook wasn't selected as a top or bottom entry in an individual challenge.
- (IMM) The cook didn't have to compete in that round of the competition and was safe from elimination.
- (PT) The cook was on the losing team in the **Team Challenge** and competed in the **Pressure Test**.
- (LOW) The cook was one of the bottom entries in an individual challenge or Pressure Test, but advanced.
- (ELIM) The cook was eliminated from MasterChef.

#### Preparing the Data

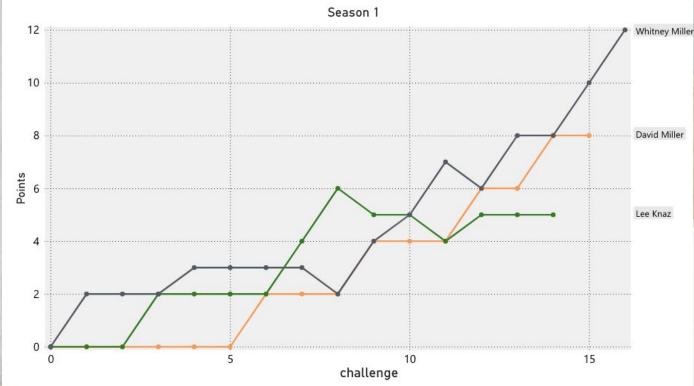
#### **Point System**

- Everyone starts at 0
- 1 point for top 3
- 2 points for winner
- -1 point for bottom 3
- Points stop once eliminated

									C	nall	en	ges					
Contestant	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	winner
Whitney Miller	0	2	2	2	3	3	3	3	2	4	5	7	6	8	8	10	12
David Miller	0	0	0	0	0	0	2	2	2	4	4	4	6	6	8	8	
Lee Knaz	0	0	0	2	2	2	2	4	6	5	5	4	5	5	5		
Sheetal Bhagat	0	0	0	2	2	2	4	5	4	6	8	7	7	7			,
Sharone Hakman	0	0	0	0	2	2	4	5	5	7	8	8	7				
Mike Kim	0	0	2	4	4	3	5	5	5	5	5						
Jake Gandolfo	0	1	1	3	4	6	6	6	6								
Tracy Nailor	0	0	0	2	2	2	2	2	1								
Kim Dung Huynh	0	0	0	0	0	-1	1	1									
<b>Anthony Carbone</b>	0	0	0	2	2	2		i 10									
Faruq Jenkins	0	0	-1	-1	-1												
Jenna Hamiter	0	0	0														
Avis White	0	0						6 - 300 5 - 400									
Sheena Zadeh	0	1		9 6				- 6									



Name	Status
Whitney Miller	1st
David Miller	2nd
Lee Knaz	3rd
Sheetal Bhagat	3rd
Mike Kim	4th
Sharone Hakman	4th
Jake Gandolfo	5th
Tracy Nailor	5th
Anthony Carbone	6th
Faruq Jenkins	6th
Avis White	7th
Jenna Hamiter	7th
Sheena Zadeh	7th

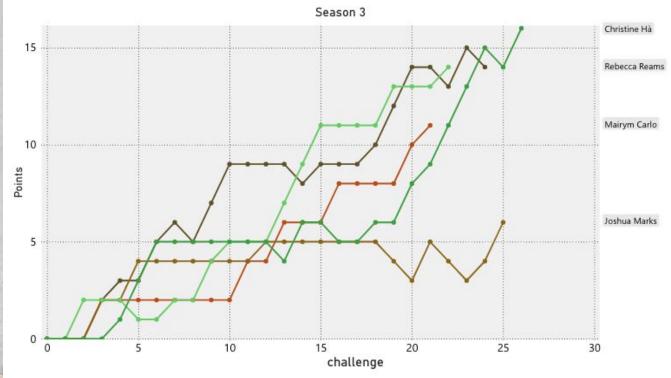


Name	Status	
Jennifer Behm	1st	
Adrien Nieto	2nd	
Christian Collins	3rd	
Suzy Singh	4th	
Ben Starr	5th	
Tracy Kontos	6th	
Derrick Prince	7th	
Christine Corley	7th	
Alejandra Schrader	8th	
Giuseppe Morisco	9th	
Erryn Cobb	10th	
Esther Kang	11th	
Jennie Kelley	12th	
Max Kramer	13th	
Alvin Schultz	14th	
Tony Scruggs	15th	
Angel Moore-Soukkay	16th	
Mark Raffaeli	16th	



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Name	Status
Christine Hà	1st
Joshua Marks	2nd
Rebecca Reams	3rd
Franklin Mirando	4th
Mairym Carlo	5th
David Martinez	6th
Felix Fang	7th
Stacey Amagrande	8th
Tali Clavijo	9th
Michael Hill	10th
Tanya Noble	10th
Anna Rossi	11th
Scott Little	12th
Ryan Umane	13th
Helene Leeds	14th
Michael Chen	15th
Dave Mack	16th
Samantha De Silva	16th



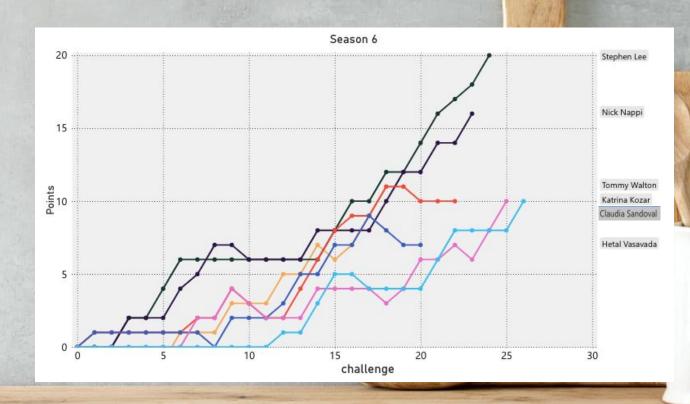
Name	Status
Luca Manfè	1st
Natasha Crnjac	2nd
Jessica Lysiak	3rd
Krissi Biasiello	3rd
James Nelson	4th
Brianna Kozior	5th
Jordan Roots	6th
Eddie Jackson	7th
Bethy Rossos	8th
Savannah Sturges	9th
Lynn Chyi	9th
Jonathan Blanchard	10th
Elizabeth Kirby	10th
Albaya Cruz	11th
Howard Simpson	11th
Kathleen Prieto	12th
Malcolm Green	13th
Adriana Guillen	13th
Sasha Foxx	14th



Name	Status
Courtney Lapresi	1st
Elizabeth Cauvel	2nd
Leslie Gilliams	3rd
Joshua Brewer	4th
Christian Green	5th
Willie Mike	6th
Daniel McGuffey	7th
Ahran Cho	8th
Victoria Scroggins	9th
Francis Legge	9th
Christine Silverstein	10th
Elise Mayfield	11th
Dan Wu	12th
Francis Biondi	13th
Tyler Viars	14th
Jordan Kaminski	15th
Kira Novak	16th
Gordon Houston	17th
Stephani Syfax-Shepherd	18th
Whitney Bray	19th
Astrid Lavenia	19th

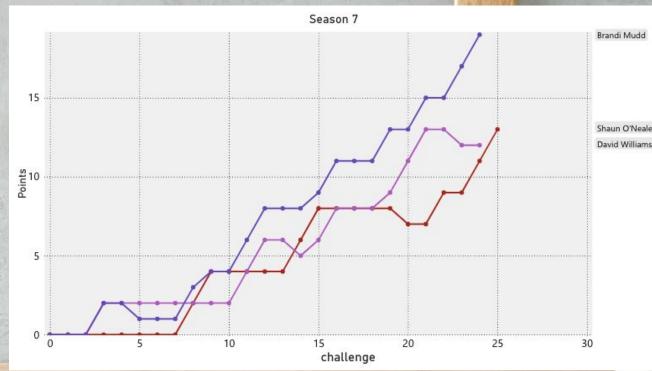


Name	Status
Claudia Sandoval	1st
Derrick Peltz	2nd
Stephen Lee	3rd
Nick Nappi	4th
Katrina Kozar	5th
Hetal Vasavada	6th
Tommy Walton	7th
Olivia Crouppen	8th
Shelly Flash	9th
Christopherher Lu	10th
Sara Zacek	11th
Kerry Prince	12th
Amanda Saab	13th
Charlie Chapman	13th
Jesse Romero	14th
Veronica Cili	14th
Ailsa von Dobeneck	15th
Dan Collado	16th
Justin Banister	17th
Darah Carattini	18th
Brianna Watson	19th



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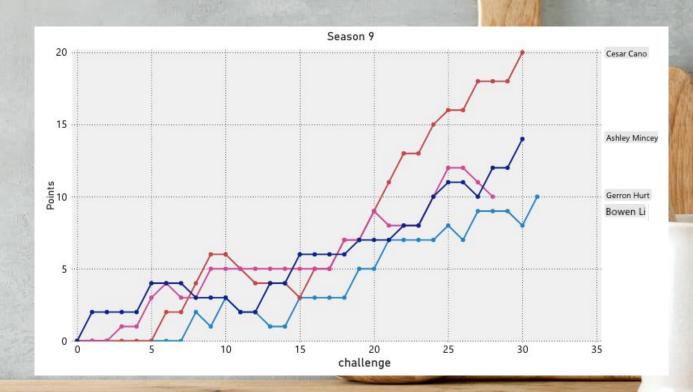
Name	Status
Shaun O'Neale	1st
Brandi Mudd	2nd
David Williams	2nd
Tanorria Askew	3rd
Daniel Paustian	3rd
Katie Dixon	4th
Nathan Barnhouse	4th
Eric Howard	5th
Terrance Mueller	5th
Diamond Alexander	6th
Andrea Galan	7th
Alejandro Toro	8th
D'Andre Balaoing	9th
Diana Bilow	9th
Manny Washington	10th
Lisa-Ann Marchesi	11th
Barbara Savage	12th
Brittany Craig	12th
Bill Travers	14th
Cassie Peterson	14th



Name	Status
Dino Angelo Luciano	1st
Eboni Henry	2nd
Jason Wang	2nd
Caitlin Meade	3rd
Jeff Philbin	3rd
Yachecia Holston	3rd
Gabriel Lewis	4th
Daniel Pontes-Macedo	5th
Caitlin Jones	5th
Adam Wong	6th
Jenny Cavellier	6th
Mike Newton	7th
Reba Billingsley	8th
Brien O'Brien	9th
Necco Ceresani	10th
Jennifer Williams	11th
Sam Reiff-Pasarew	12th
Heather Dombrosky	13th
Paige Jimenez	14th
Mark Togni	15th



Name	Status			
Gerron Hurt	1st			
Ashley Mincey	2nd			
Cesar Cano	2nd			
Samantha Daily	3rd			
Bowen Li	3rd			
Farhan Momin	4th			
Julia Danno	5th			
Shanika Patterson	5th			
Taylor Waltmon	6th			
Emily Hallock	6th			
Chelsea Sargent	7th			
Seung Joo Yun	7th			
Ralph Xavier Degala	8th			
Mark Ingraham	9th			
Ryan Cortez	10th			
Lindsay Haigh	11th			
Matthew Houck	11th			
Juni Cuevas	12th			
Alecia Winters	13th			
Darrick Krause	14th			
Olusola Ogbomo	15th			



Name	Status			
Dorian Hunter	1st			
Sarah Faherty	2nd			
Nick DiGiovanni	3rd			
Noah Sims	4th			
Shari Mukherjee	5th			
Subha Ramiah	5th			
Micah Yaroch	6th			
Brielle Baker	7th			
Jamie Hough	8th			
Fred Chang	9th			
Wuta Onda	10th			
Renee Rice	11th			
Samuel Haaz	12th			
Keturah King	13th			
Elizabeth Linn	14th			
Michael Silverstein	14th			
Evan Tesiny	15th			
Kimberly White	16th			
Deanna Colon	17th			
Kenneth Palazzolo	17th			



#### Predicting the Winner

- Decision Tree Classifier
- Ran two models
  - FOX system
  - Point system

ontestant_id	name	age	home_state	status	season	num_wins	num_tops	num_bottom	num_safe
51	Luca Manfè	31	NY	1	4	10	2	2	16
52	Natasha Crnjac	27	CA	2	4	13	2	2	14
53	Jessica "Jessie"	27	GA	3	4	10	4	4	1:
54	Krissi Biasiello	34	PA	3	4	3	2	2	20
55	James Nelson	26	TX	4	4	5	1	1	17
56	Brianna "Bri" Ko	22	PA	5	4	5	0	0	1;
57	Jordan Roots	29	MA	6	4	2	2	2	11
58	Eddie Jackson	32	GA	7	4	7	1	1	10
59	Bethy Rossos	28	OR	8	4	5	0	0	
60	Savannah Sturg	27	CA	9	4	3	1	1	
61	Lynn Chyi	27	CA	9	4	4	0	0	
62	Jonathan "Jonny	28	MA	10	4	1	1	1	- 1
63	Elizabeth "Beth"	29	TN	10	4	3	1	1	:
64	Albaya "Bime" C	35	MA	11	4	2	2	2	
65	Howard Simpson	26	CA	11	4	1	0	0	
66	Kathleen "Kathy	29	NY	12	4	0	0	0	
67	Malcolm Green	27	MA	13	4	1	0	0	
68	Adriana Guillen	26	NY	13	4	0	0	0	
69	Sasha Foxx	42	AL	14	4	0	0	0	

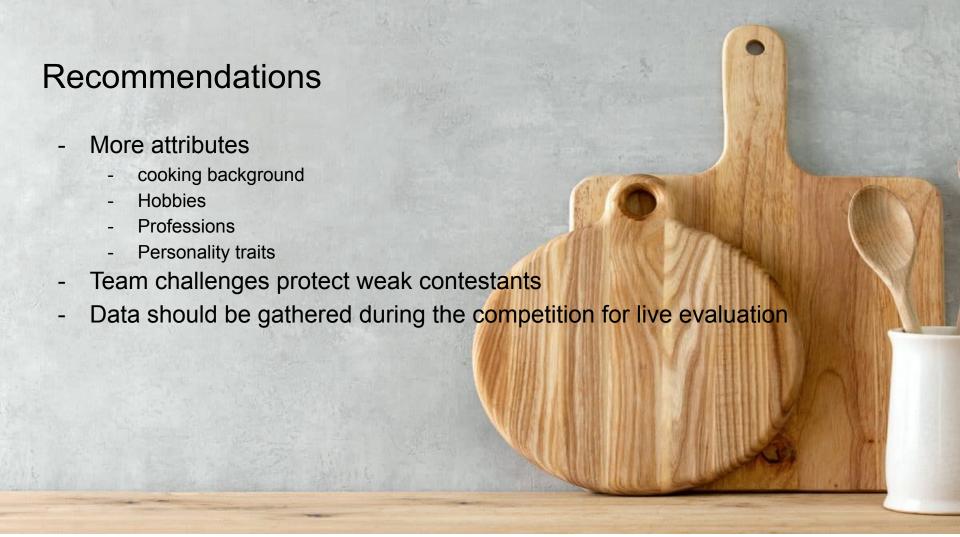
#### Predicting the Winner

- Decision Tree Classifier
- Ran two models
  - FOX system
  - Point system

FOX Accuracy Score: % 14.89

Point Accuracy score: % 17.02





#### Risks/ Benefits

#### Risks

- Viewership could lower faster
- Less dramatic television

#### **Benefits**

- An honest competition
- A change from normal programming
- Viewership may increase



#### Conclusion

- Both Predictive models were too low to be counted as accurate
- More variables need to be taken into account
- Each episode much have feedback data extracted from the judges.

