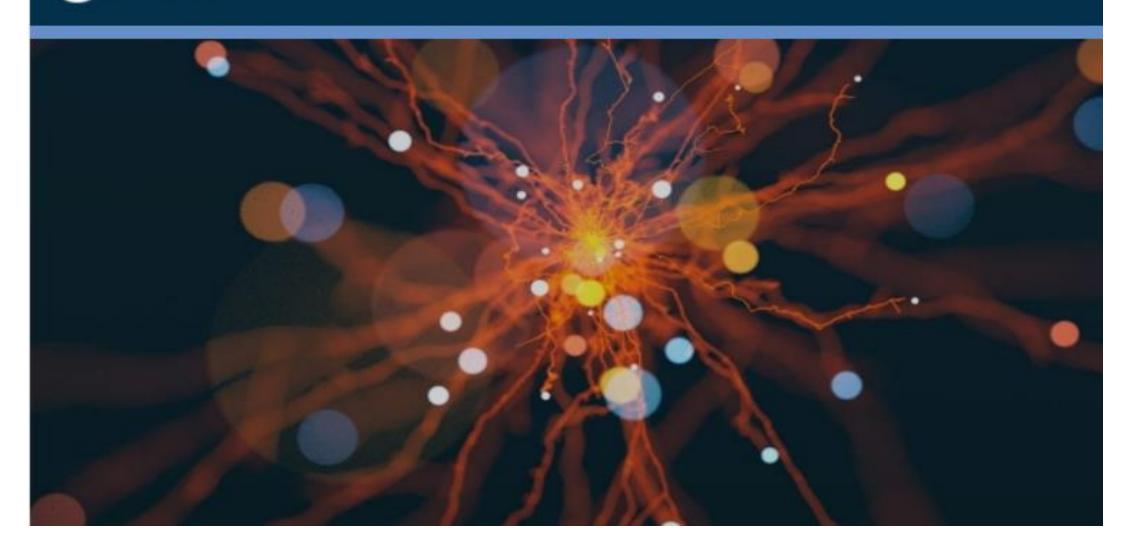
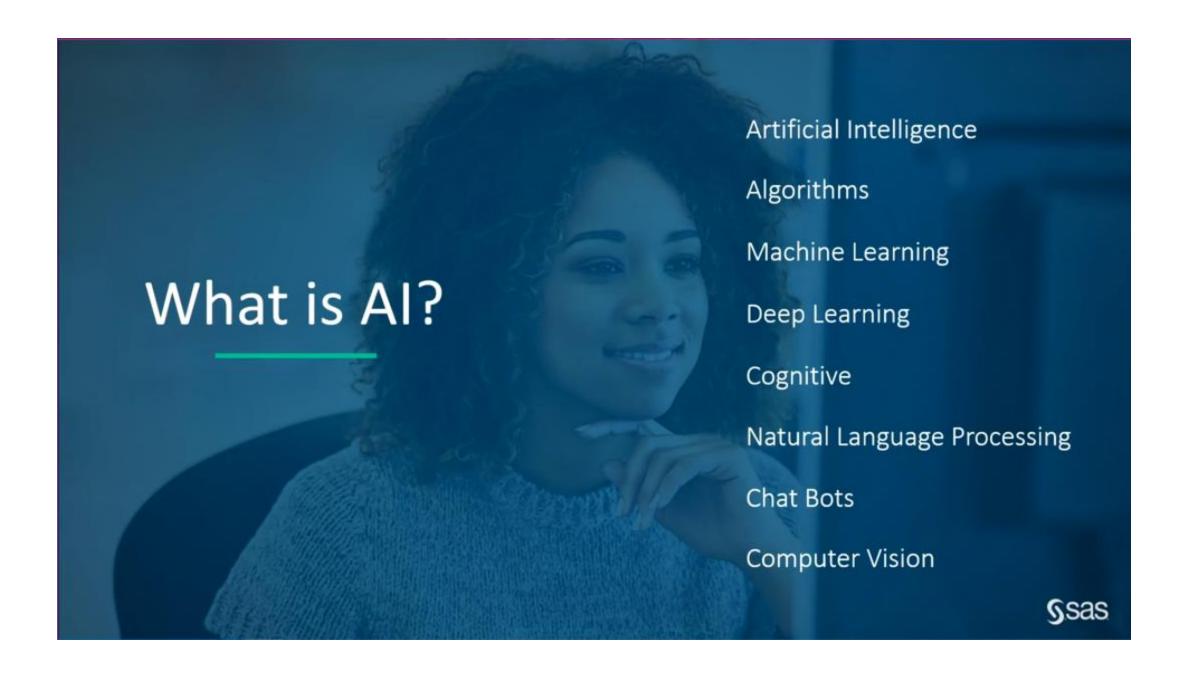
### S.sas.



# What Marketers Need to Know About Al



#### Al is all around us!

- Digital voice assistant
- Real-time weather and traffic updates
- Fitness and nutrition assistant
- Mobile banking and check deposit
- Smart thermostat and appliances
- Retailer and media content recommendations
- Credit card fraud alerts
- Social network facial recognition tags
- Geofence-enabled push marketing offers



#### 4 Artificial Intelligence Enablers



MACHINE LEARNING & DEEP LEARNING



COMPUTER VISION



NATURAL LANGUAGE PROCESSING



REAL TIME / STREAMING ANALYTICS



#### Artificial Intelligence

The science of training systems to emulate human tasks through learning and automation.





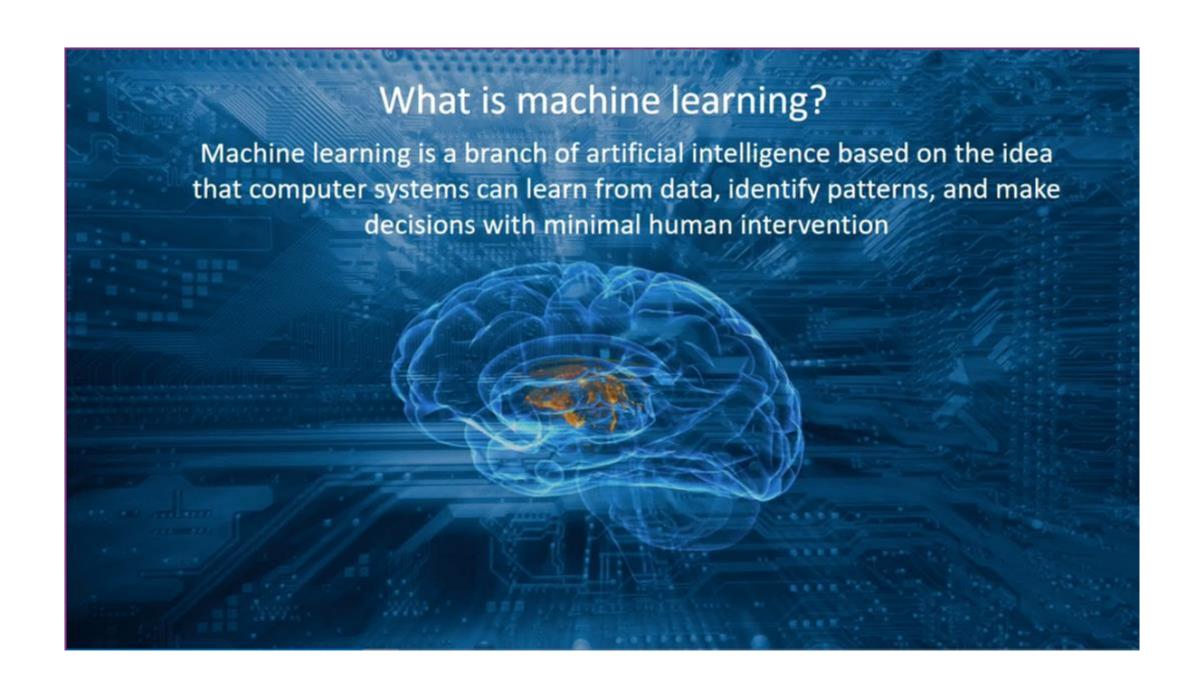


## Machine Learning From Experience

EXAMPLE, REPETITION, FEEDBACK





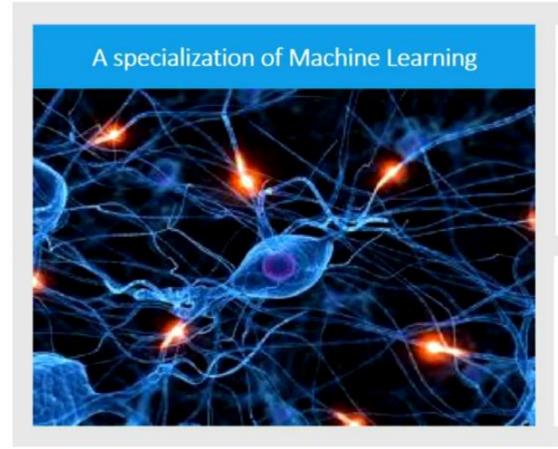


#### Some Applications

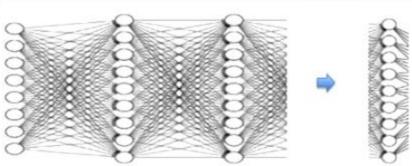
- Digital voice assistant
- Real-time weather and traffic updates
- Fitness and nutrition assistant
- Mobile banking and check deposit
- Smart thermostat and appliances
- Retailer and media content recommendations
- Credit card fraud alerts
- Social network facial recognition tags
- Geofence-enabled push marketing offers



#### What is Deep Learning?

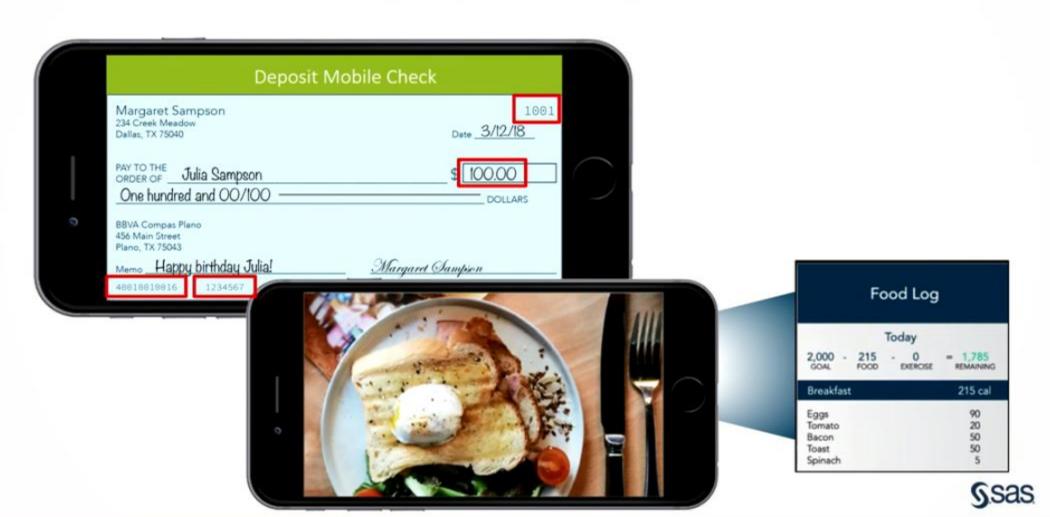


- Neural Networks with many hidden layers
- Use for classification, prediction, or pattern recognition, especially in unstructured data
- Automatic feature generation





#### **Computer Vision**



#### **Natural Language Processing**

Natural language processing (NLP) is a branch of artificial intelligence that helps computers understand, interpret and manipulate human language. NLP draws from many disciplines, including computer science and computational linguistics, in its pursuit to fill the gap between human communication and computer understanding.







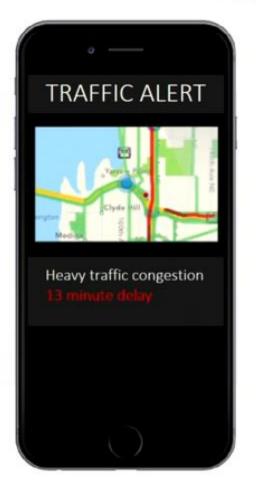
Alarm set to 6:30 AM tomorrow.





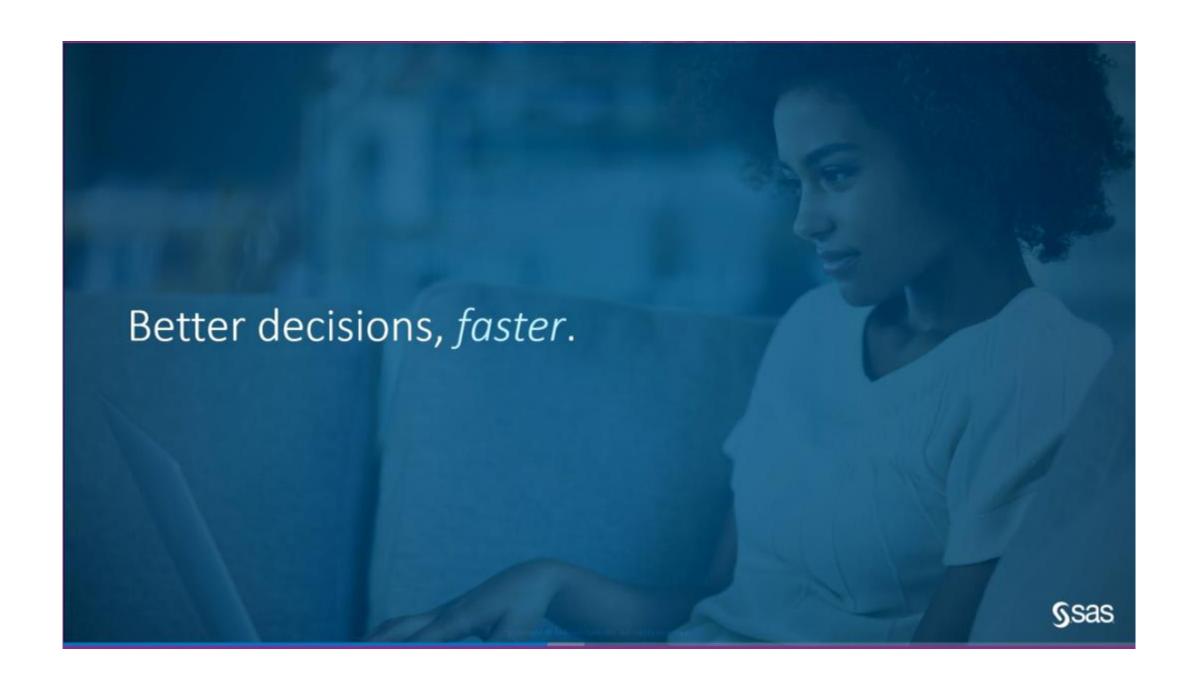
#### Analytics in Motion

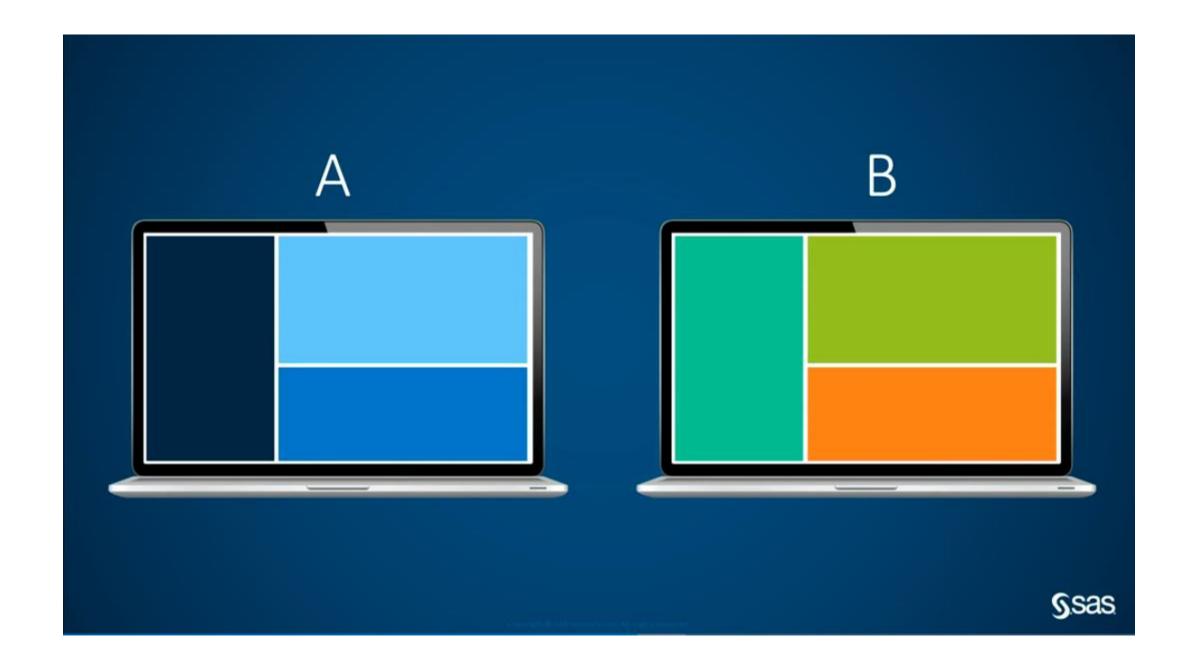
#### Real-time and streaming systems

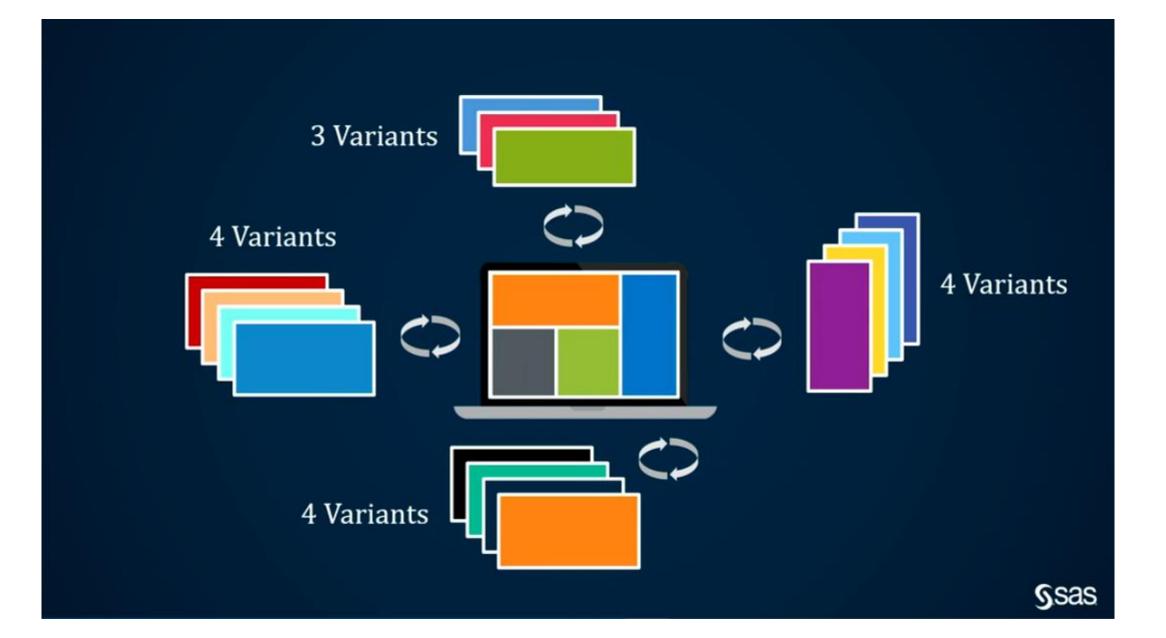




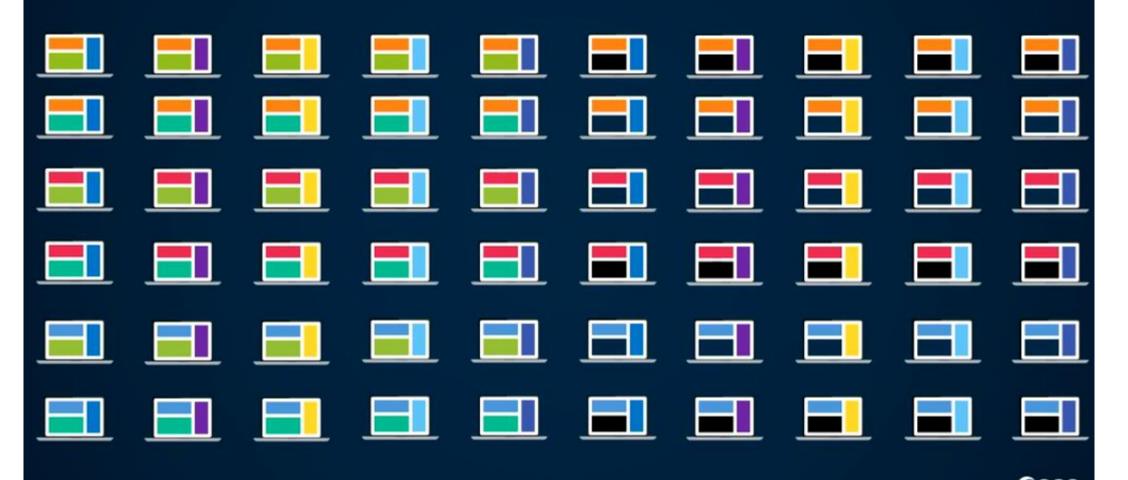








#### 192 Combinations!



#### Next Best Offer – Movie Recommender

SSAS Movies you've watched





Blade Runner



Robots



Al : Artificial Intelligence



I, Robot



TOM CRUISE MINORITY REPORT

Minority Report



**Short Circuit** 



Wall - E



Ex Machina



Big Hero 6

Movies You May Like...







Recommend

User A

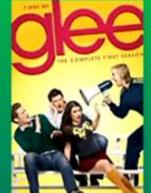
User B

#### Next Best Offer – Movie Recommender

#### SSAS Popular in your area









The Departed









Moana





User A







You may enjoy.....







The Princess Bride



Frozen



**Groundhog Day** 

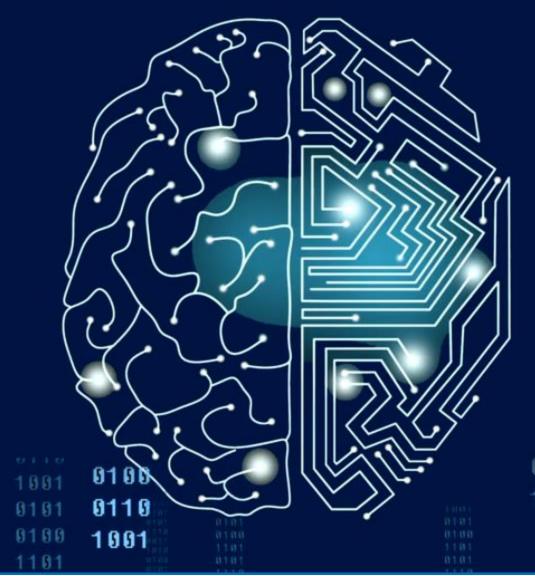


Cloudy with a Chance of

Recommend







Are we culturally ready for Artificial Intelligence?

Are our processes well defined and can we monitor them effectively?

What application of Artificial Intelligence will help me solve my business problem?

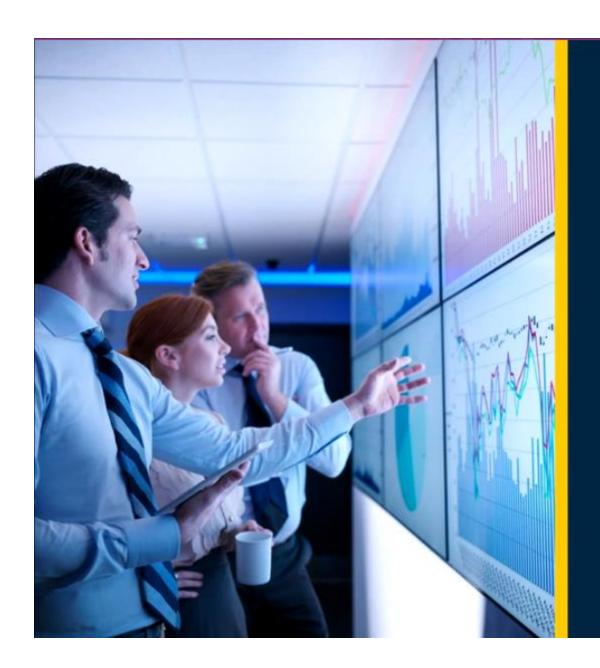
0110 1001





- Host an information session for your colleagues
- Connect with other Al adopters
- Engage with your data scientists





#### Get to know your processes

- Start with standardized, documented processes for automation
- Evaluate the quality of your data
- Continuously monitor the process



#### **Experiment** with technology

- · Start small
- Look for pilot projects you can run in parallel
- · Examine your marketing strategy



https://www.sas.com/en\_us/webinars/marketers-need-to-know-about-artificial-intelligence.html#formsuccess