thinkperformance

Machine Learning Как машинное обучение меняет бизнес и маркетинг

Aprajita Jain, Google Executive Summits Evangelist



PORTRAIT

CAUCASIAN

MALE

FACIAL HAIR 30-40 YEARS OLD DARK CLOTHING

COLLAR

WEARING A HAT

FACING TO THE RIGHT

A step back to get the definitions right

A step back to get the definitions right

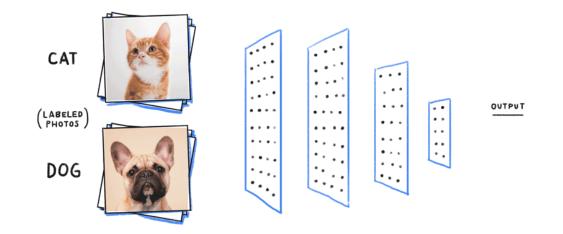
Artificial Intelligence: Broad term for getting computers to perform human tasks; the science of making things smart.

Machine Learning: A method of AI in which algorithms are used to autonomously learn from **examples** rather than explicit **rule-based** programming.

Deep Learning: A technique of machine learning where algorithms are arranged in layers that **mimic the human brain's learning patterns (neural nets)**.

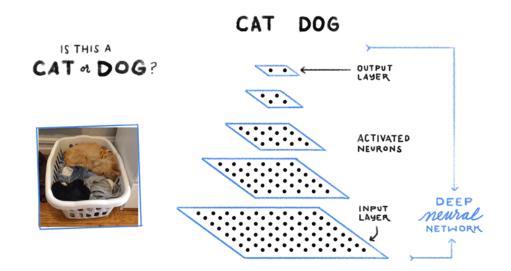


How does it work?





How does it work?





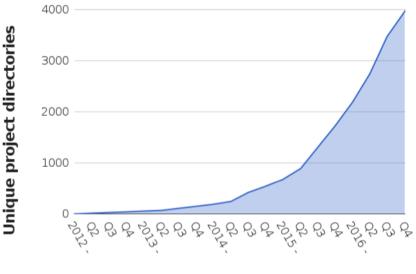
MACHINE LEARNING AT ALPHABET

r - p¹next; For i = 1 to 10 do if r <> rel then massco - 1, else last := p¹prev; l = 5 + X;

For 1 = 0 to 2

Growing Use of Machine Learning at Alphabet

of directories containing model description files



Time thinkperformance

DeepMind mastering Atari games









MACHINE LEARNING IN GOOGLE PRODUCTS

Machine Learning at Google



Search Search ranking Speech recognition



Gmail Smart reply Spam classification



Drive Intelligence in Apps

Android



Play App recommendations Game developer experience



G

Chrome Search by image

Street view image

Parsing local search

Maps



Photos Photos search



YouTube Video recommendations Better thumbnails

Keyboard & speech input



Translate Text, graphic and speech translation



Cardboard Smart stitching



Ads Richer text ads Automated bidding



TRANSLATE - Machine Learning @Google





Machine Learning for All





MACHINE LEARNING IN GOOGLE ADVERTISING PRODUCTS

r = p²next; For i = 1 to 10 do asscu-li else lasta proventi (- 5²

and durant (a) . No.

[2-22;]

Writeln;" < e--nd x:=0; For 1 = o to 2 do

HOW DO YOU KEEP UP WITH CONSTANTLY EVOLVING **Consumer Behavior?**

HOW DO YOU ENSURE THAT YOU GET THE BEST OUT OF Every Marketing Dollar YOU SPEND?

> HOW DO YOU STAY FOCUSED ON THE **Right Things?**



Demand Marketing Process in Al/Digital World

Key Business Objectives

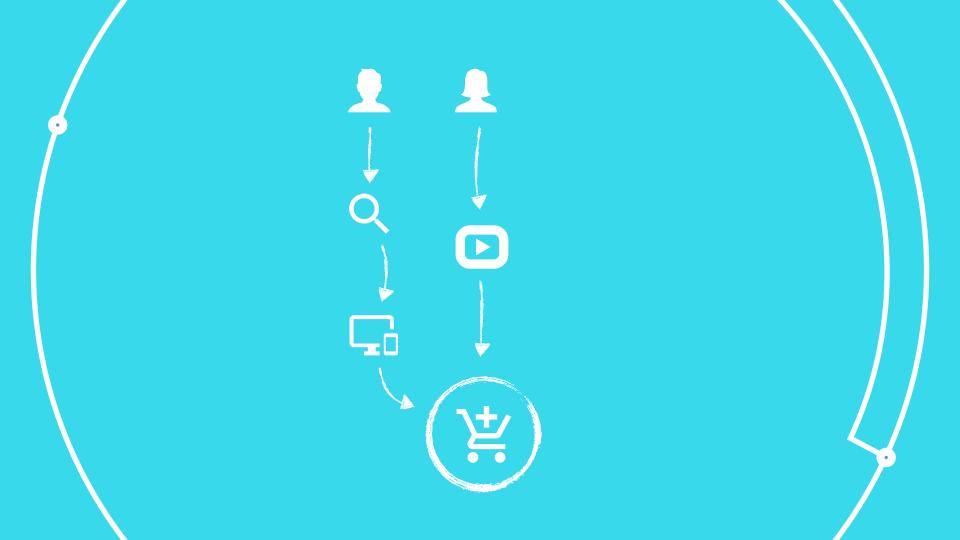
> Qualified Audience

AI DRIVEN MARKETIN G

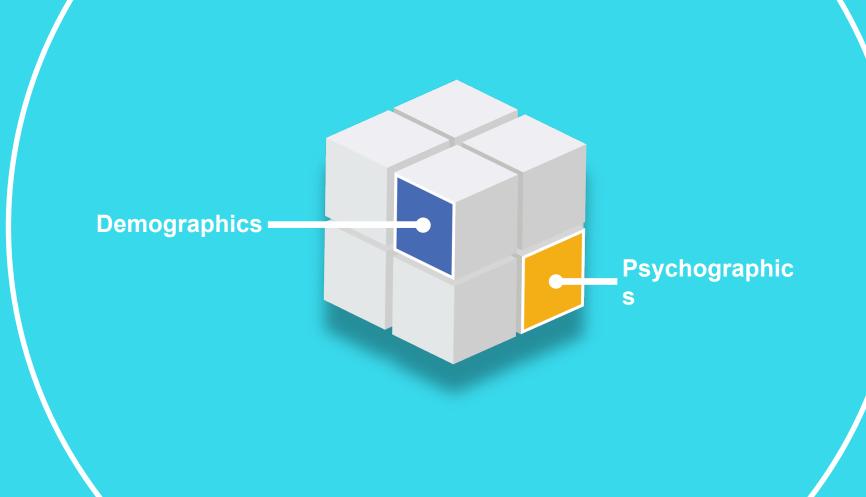
Key Business Outcomes

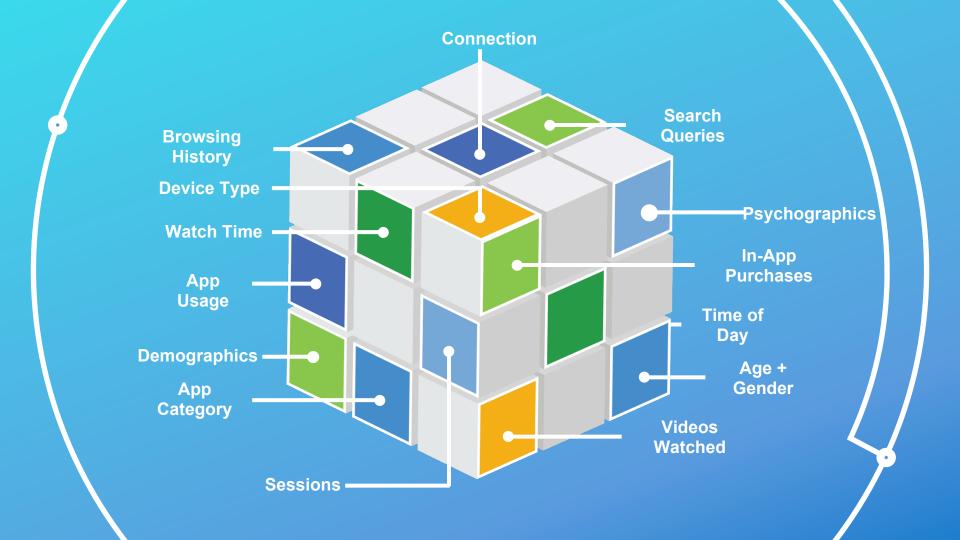
Smart Bidding











DECLINING SALES







お 袴 ち 帰 り 子 ヨイス 意外にもテイクアウトではボリューム満点の

The rain stopped! Time for a take out?



Спасибо!

