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**COMP 598** 



# Human – AI interaction everywhere!

#### Nowadays we interact with AI most of the time.

- Youtube ads
- Instagram explore
- Amazon offers or Netflix movie recommendation
- Unlock the phone with face ID
- ..



### How does AI work?

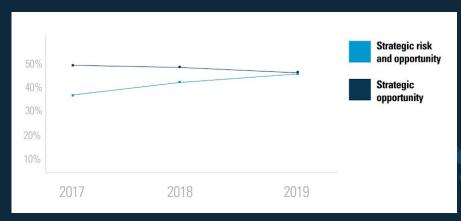
- ♦ Al consists of a set of rules, apply on our problem
- Based on human judgments





# Perspective of practitioners over time

This shift suggests an increasing awareness of and concern with competitors' use of Al.



Retrieved from: Pioneers Combine Strategy, Organizational Behavior, and Technology OCTOBER 2019 RESEARCH REPORT By Sam Ransbotham and et.

In 2019, 45% perceived some risk from AI, up from an already substantial 37% in 2017.





### Humans out!!

#### Why?

- Less costly
- No need of teams of experts
- Give us the results in seconds

#### Imagine AI without humans in the loop:

- University student application evaluator
- Amazon offers
- 346 casualties in 2 recent crashes of B-737



## Humans In:)

#### So what is the solution

Accept the results with all of the consequences

OR

Bring humans in the loop





## The rule of thumb

Algorithms

1

Technology

+

People



### Explore more



#### Experiments on a new drug:

- Risk of having heart attack for 1st doze
- Data scientist predict 62% of patients with 0 risk
- Doctors were not comfortable with this result
- Analyzing the model using doctors
- Duilding new models after 4 months with related licenses





# It is your turn:

I want you to participate in this poll, please :D ( In the chat ) :





## Weaknesses. Really?

#### Biases:

♦ Gender

#### People lie!!

- Race
- Voting
- Religious





# Why it is so important to take into account these factor

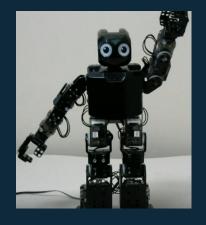
In the near future we may ought to trust AI, but with these kinds of inputs from humans, can we trust on them?





## Dancing robots:









### What should we do?

Please feel free to express your opinion about these kinds of challenges.





### References

- "WINNING WITH AI" Pioneers Combine Strategy, Organizational Behavior, and Technology by RESEARCH REPORT By Sam Ransbotham and et.
- ♦ TED by Sylvain Duranton @BCG Mumbai | September 2019
- ♦ TED by Ayanna Howard TEDWomen 2018 | November 2018
- Everybody Lies: Big Data, New Data, and What the Internet Can Tell
  Us About Who We Really Are, Book by Seth Stephens-Davidowitz





# Thanks!

Any questions?

