

#### Entendendo Estatística Divertidamente

**Americanas** 

Seja bem vindX!!!

Câmera ligada e

Microfone mutado sempre
que não estiver falando

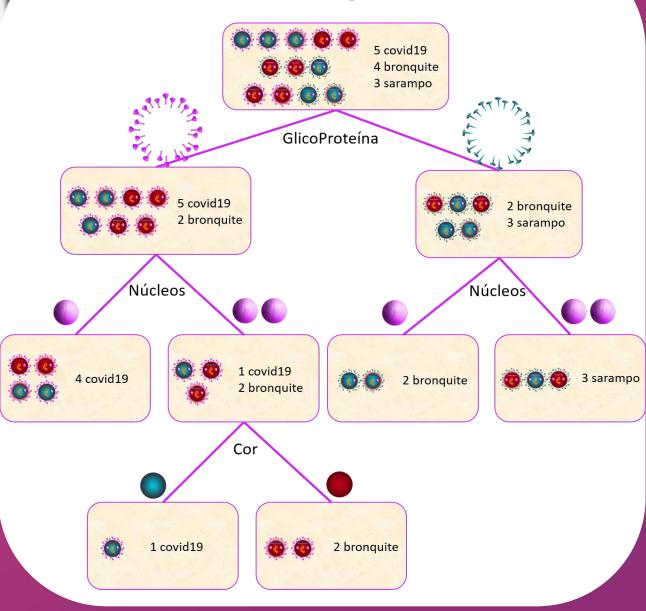
# O que é Machine Learning?



Na prática

Árvore de Decisão

#### **SOLUÇÃO**





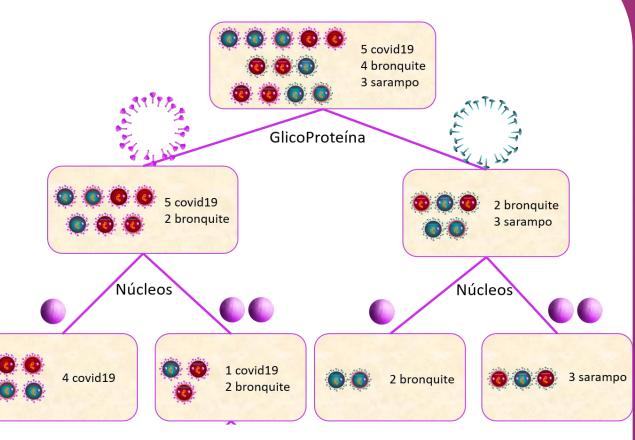
# O que é Machine Le arning?



Na prática

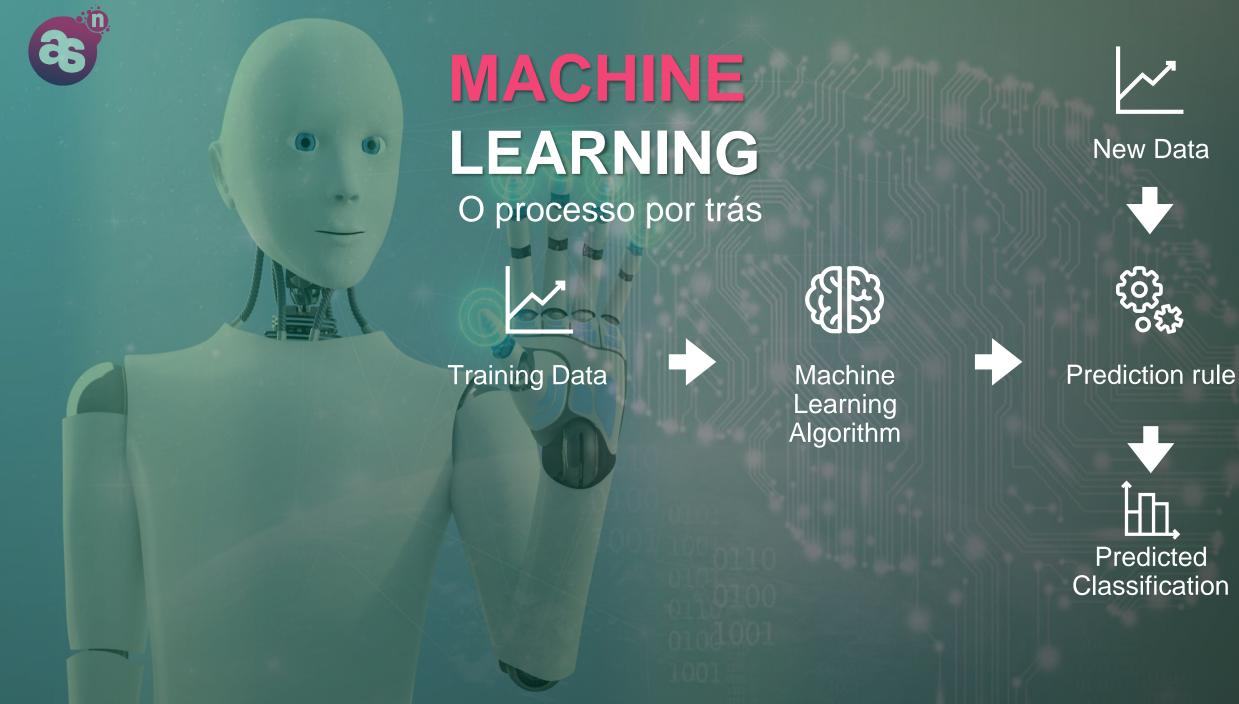
Árvore de Decisão

#### **SOLUÇÃO**











"THE FUTURE IS ALREADY HERE

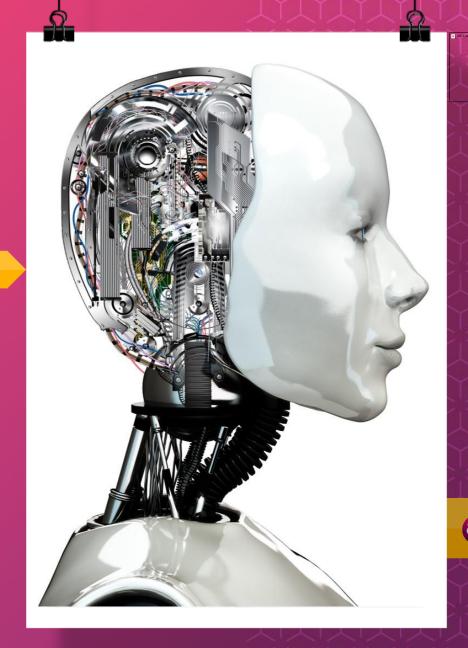


It's just not very

## evenly distributed" William Gibson







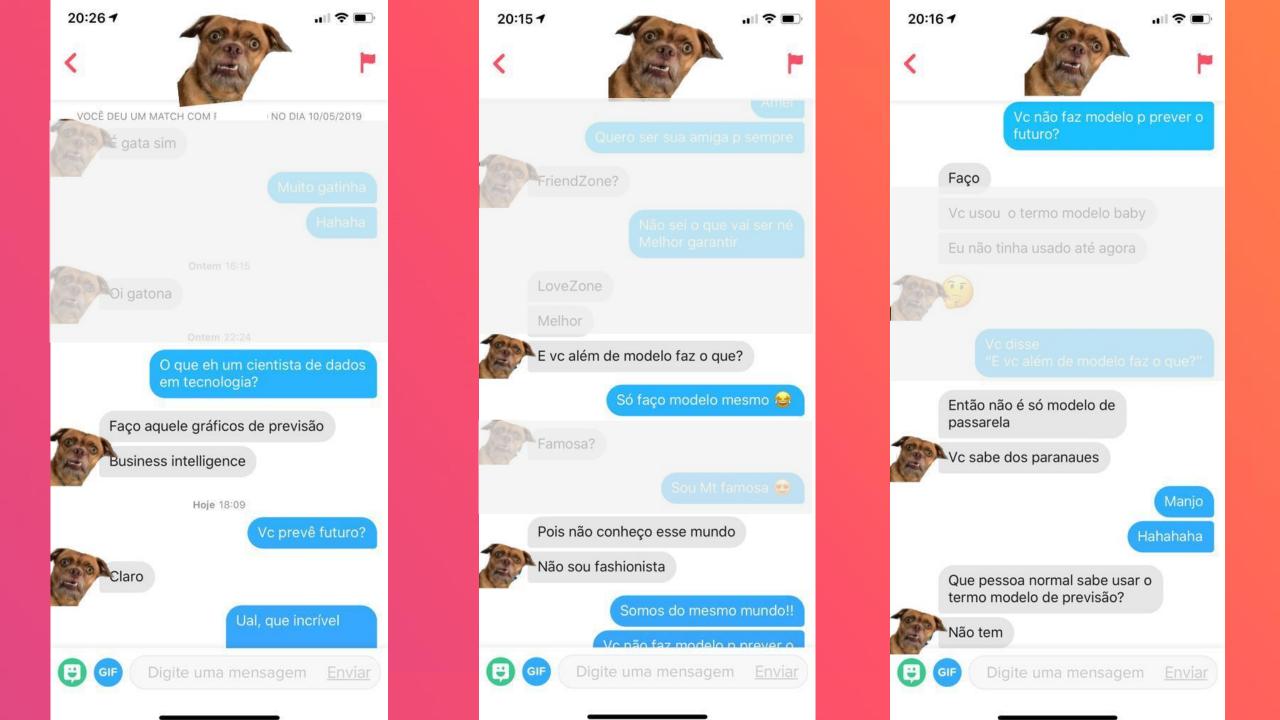


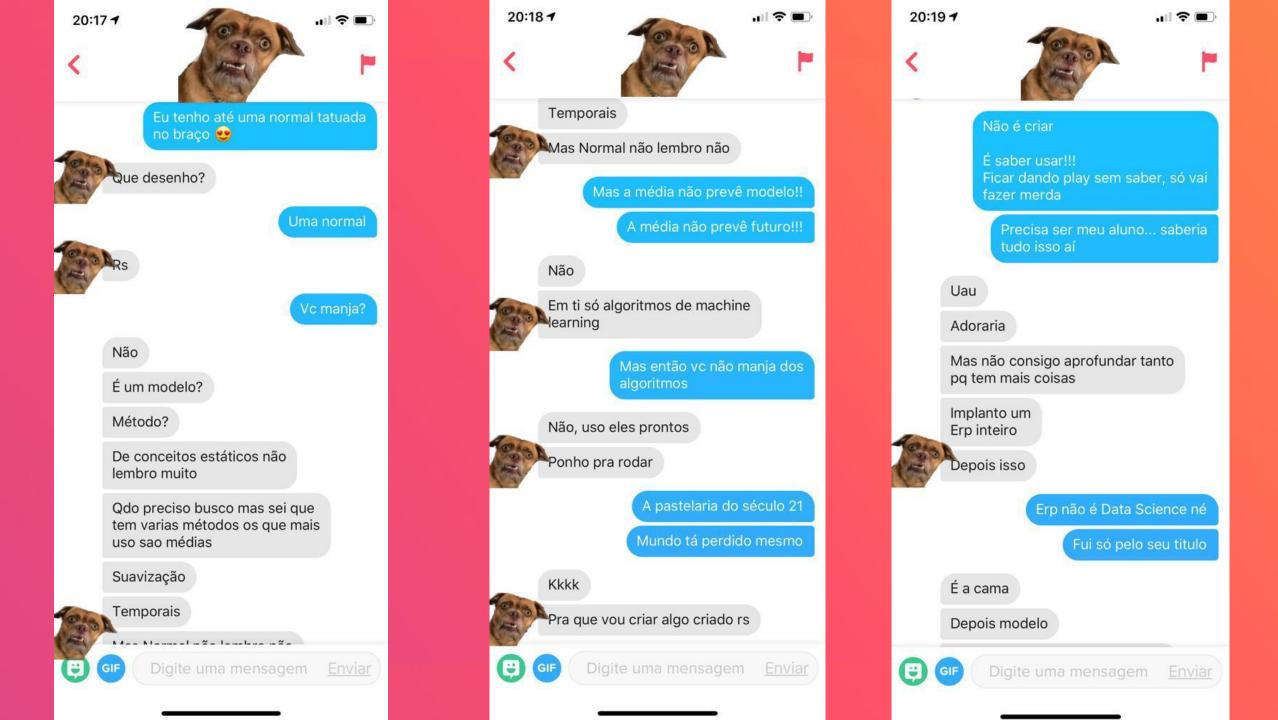






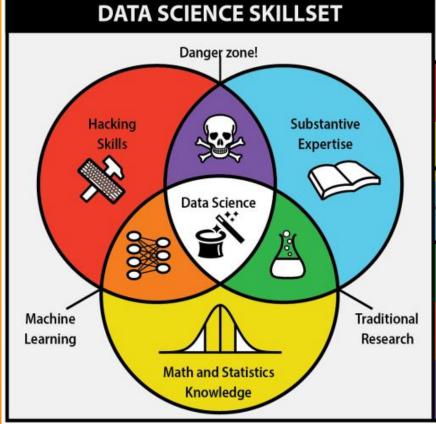














Data science, due to its interdisciplinary nature, requires an intersection of abilities: **hacking skills**, **math and statistics knowledge**, and **substantive expertise** in a field of science.



**Hacking skills** are necessary for working with massive amounts of electronic data that must be acquired, cleaned, and manipulated.



**Math and statistics knowledge** allows a data scientist to choose appropriate methods and tools in order to extract insight from data.



**Substantive expertise** in a scientific field is crucial for generating motivating questions and hypotheses and interpreting results.



**Traditional research** lies at the intersection of knowledge of math and statistics with substantive expertise in a scientific field.



**Machine learning** stems from combining hacking skills with math and statistics knowledge, but does not require scientific motivation.



**Danger zone!** Hacking skills combined with substantive scientific expertise without rigorous methods can beget incorrect analyses.



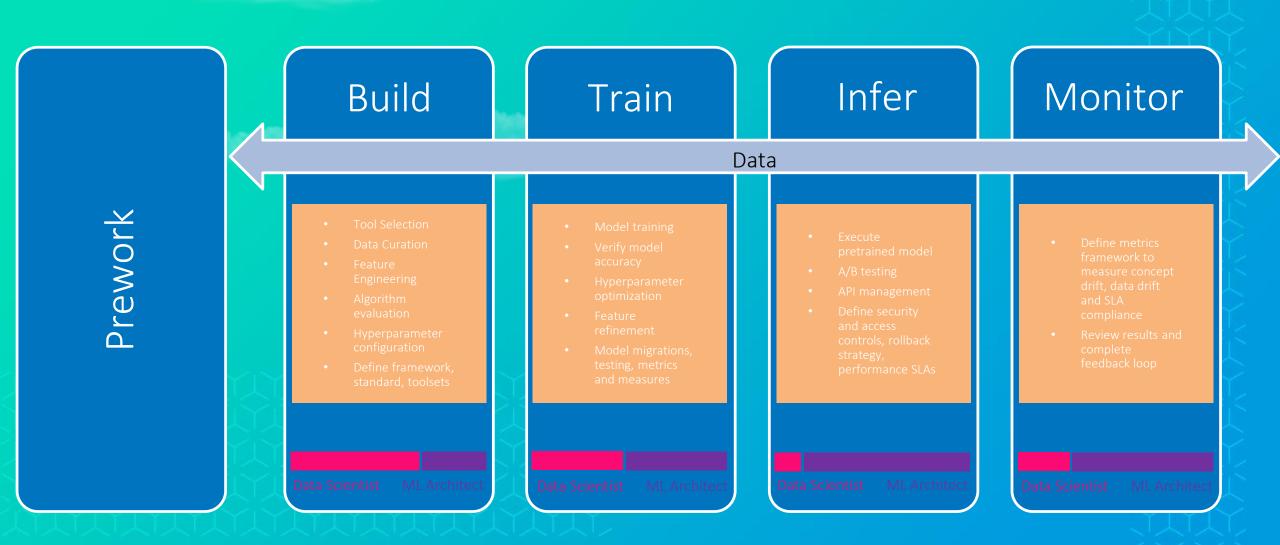
Direto do Kirk Bourne





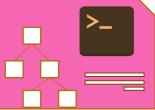
- Definição Problema de Negócio
- Aquisição dos Dados
- Preparação dos Dados
- Análise Exploratória dos Dados
- **M**odelagem
- Visualização e Comunicação
- Deploy e Manutenção

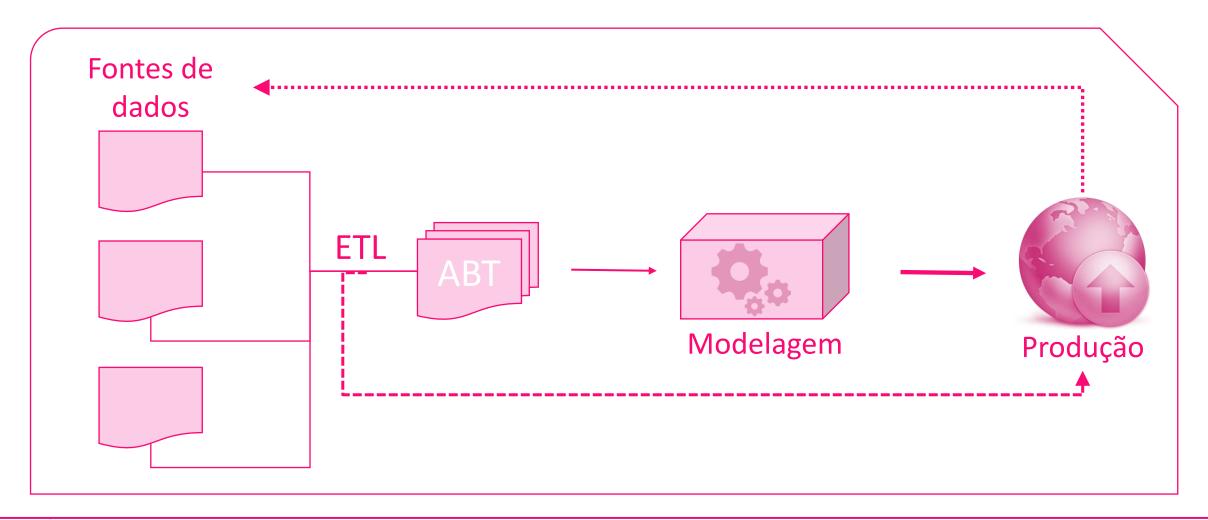
#### Gartner



Source: Gartner

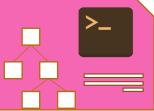
### Processo de modelagem

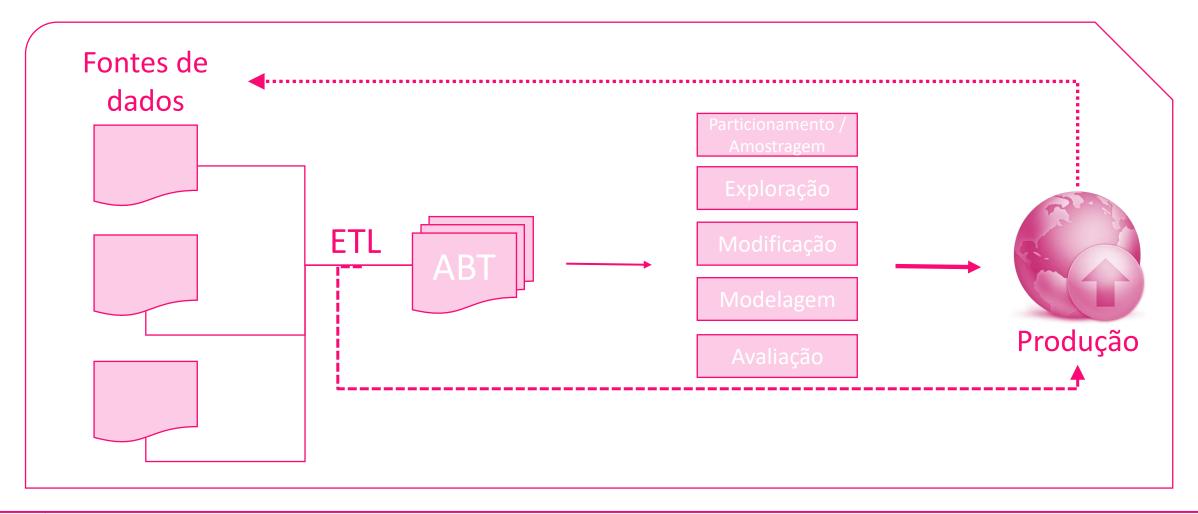






### Processo de modelagem







# O profissional do agora



**Comunicativo** 

Versátil

Pautado em dados

**Estratégico** 

Ágil

Visão do

todo

Curioso

Inovador

Humano

Conhecimento básicos de riscos

Não sofre com erros

## "It's kind of fun to do the IMPOSSIBLE"



