



# **INSTANCIA PRESENCIAL**

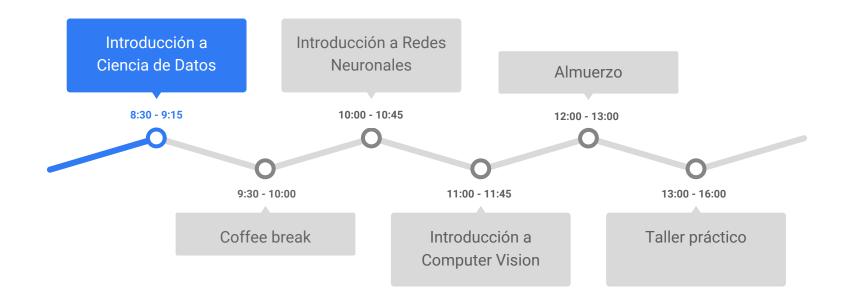
# **Contenido**

| AGENDA                          |  |  |  |  |  |  |  |
|---------------------------------|--|--|--|--|--|--|--|
| REPASO HISTÓRICO                |  |  |  |  |  |  |  |
| CIENCIAS DE DATOS, BIG DATA     |  |  |  |  |  |  |  |
| CONCEPTO DE APRENDIZAJE         |  |  |  |  |  |  |  |
| APRENDIZAJE AUTOMÁTICO          |  |  |  |  |  |  |  |
| TIPOS DE APRENDIZAJE AUTOMÁTICO |  |  |  |  |  |  |  |
| EJEMPLOS Y APLICACIONES         |  |  |  |  |  |  |  |





# **AGENDA**







146

(Taken from MIND: a Quartedy Review of Psychology and Philosophy. Vol. LIX., N.S., No. 236, October, 1950.)

#### COMPUTING MACHINERY AND INTELLIGENCE

by

A. M. TURING.

#### 1. The Imitation Game.

I propose to consider the question, 'Can machines think?' This should begin with definitions of the meaning of the terms 'machine' and 'think'. The definitions might be framed so as to reflect so far as possible the normal use of the words, but this attitude is dangerous. If the meaning of the words 'machine' and 'think' are to be found by examining how they are commonly used it is difficult to escape the conclusion that the meaning and the answer to the question, 'Can machines think?' is to be sought in a statistical survey such as a Gallup poll. But this is absurd. Instead of attempting such a definition I shall replace the question by another, which is closely related to it and is expressed in relatively unambiguous words.

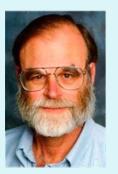
The new form of the problem can be described in terms of a game which we call the 'imitation game'. It is played with three people, a man (A), a woman (B), and an interrogator (C) who may be of either sex. The interrogator stays in a room apart from the other two. The object of the game for the interrogator is to determine which of the other two is the man and which is the woman. He knows them by labels X and Y, and at the end of the game he says either 'X is A and Y is B' or 'X is B and Y is A'. The interrogator is allowed to put questions to A and B thus:



# Ciencia de datos

La ciencia de datos es un campo interdisciplinario que involucra métodos científicos, procesos y sistemas para extraer conocimiento o un mejor entendimiento de datos

"Cuarto paradigma" de la ciencia (empírico, teórico, computacional y ahora basado en datos) y afirmó que "todo lo relacionado con la ciencia está cambiando debido al impacto de la tecnología de la información y el diluvio de datos", **Jim Gray** 

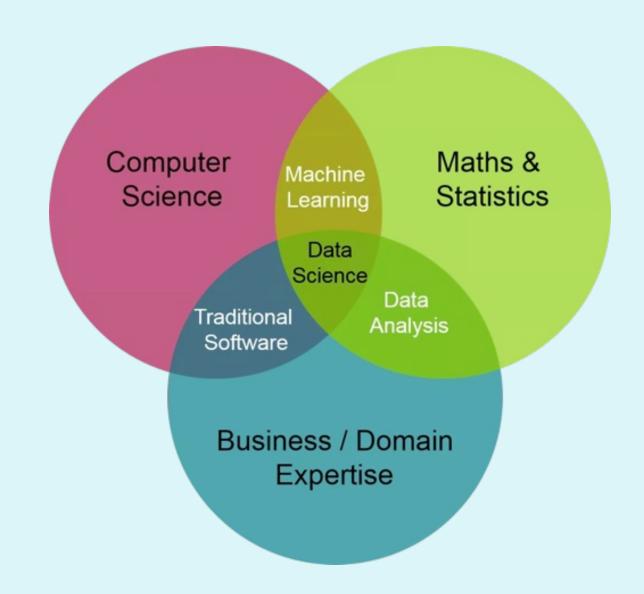




#### Paradigmas de la ciencia

- Hace mil años:
   la ciencia era empírica descripción de fenómenos naturales
- Últimos siglos: rama teórica utilización de modelos, generalizaciones
- Últimas décadas: una rama computacional
- simulación de fenómenos complejos

  Hoy: la exploración de datos (e-ciencia)
  unificación de teoría, experimentación y simulación
- Los datos se capturan mediante instrumentos
   o se generan mediante simulador
- Procesados mediante software
- La información/conocimientos se almacenan en computadora
- El científico analiza la base de datos o los archivos mediante administración de datos y estadística



# 2021 This Is What Happens In An Internet Minute



## **Mantenimiento Predictivo**

300 sensores

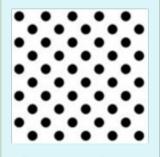
200 GB de datos por día

Se transmiten y analizan en Dinamarca



# **BIG DATA**

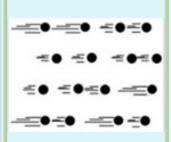
## Volume



Data at Rest

Terabytes to **Exabytes of existing** data to process

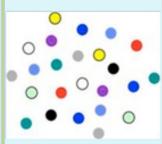
## Velocity



Data in Motion

Streaming data, requiring milliseconds to seconds to respond

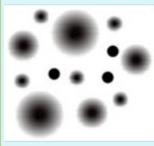
## Variety



**Data in Many** Forms

Structured, unstructured, text, multimedia,...

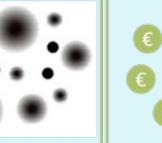
## Veracity



**Data in Doubt** 

Uncertainty due to data inconsistency & incompleteness, ambiguities, latency, deception, model approximations

## Value

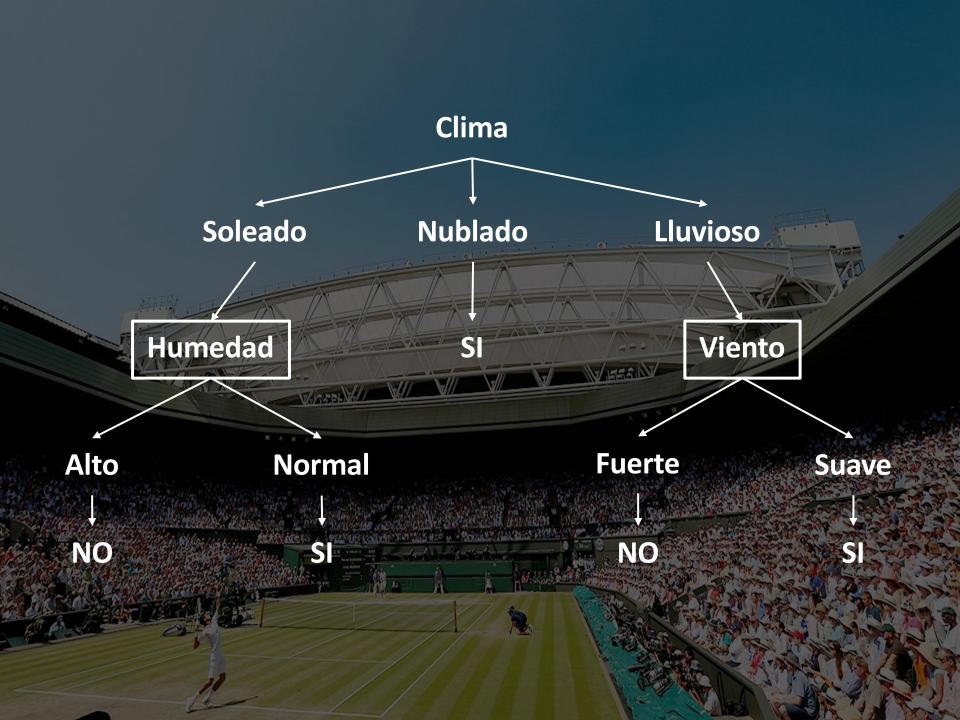


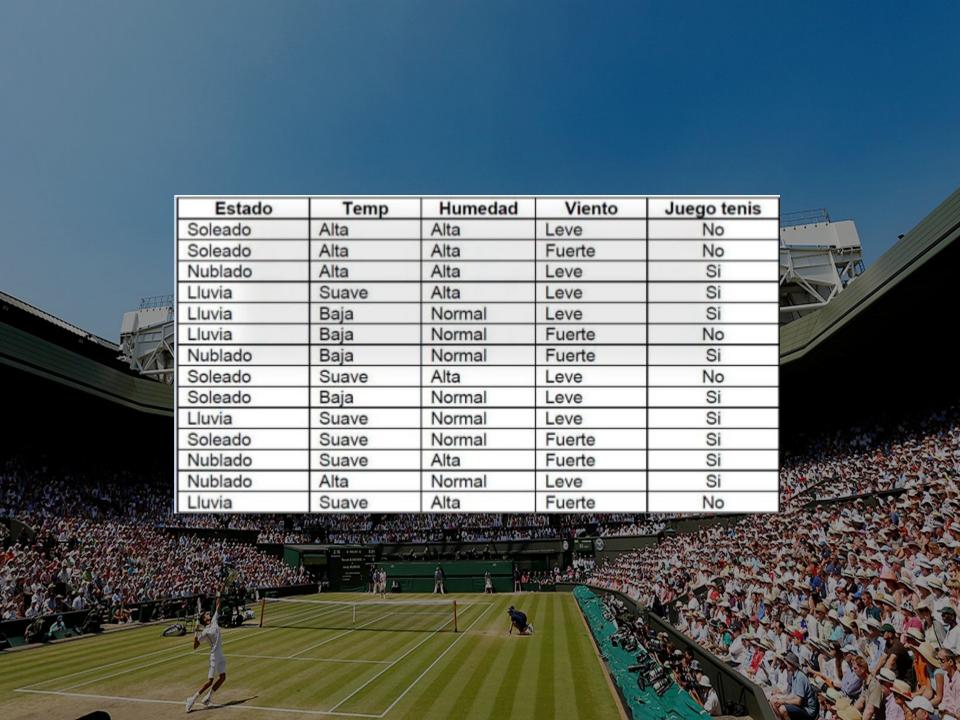
# Data into Money

Business models can be associated to the data

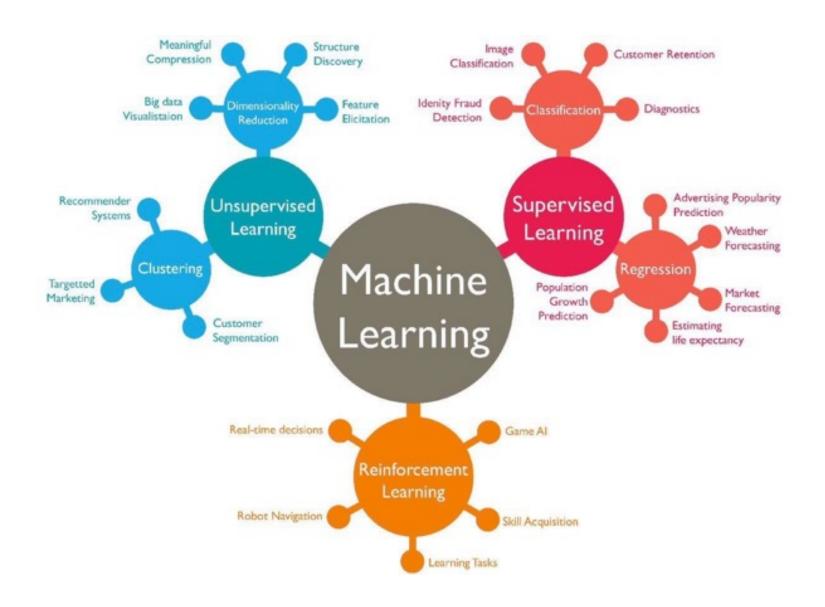


| HELP<br>press F1<br>DISPLAY<br>press F2 | COMMANDS<br>Takeback<br>Forward<br>Analysis | Invert<br>Replay<br>Print<br>Easy | Compute<br>2-player<br>Next-best<br>Quit | Level<br>Sound<br>Games | Hint<br>Demo<br>Wait  | SETUP<br>press F3<br>NEW GAME<br>press \$ |                      | 3<br>E   |
|---|---|-----------------------------------|--|-------------------------|---|---|----------------------|----------|
| PLAYER<br>00:00:03                      | PROGRAM<br>00:00:00                         |                                   | ¥ <u>§</u><br>23 <b>9</b>                | <u>}</u>                | <b>1 1 1 1 1 1 1 1 1 1</b>                                  | <u>0</u>                                  | <b>1</b><br><b>1</b> | <b>1</b> |
|   |   |                                   |  |                         |   |   |                      |          |
|   |   |                                   |  |                         |   |   |                      |          |
| OUR MOVE<br>EVEL 3 6 Sec                | CHAMPIONSH                                  | IP                                | <u>⊬</u> 4 €                             |                         | 2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>200 |   | <u> </u>             | 5        |







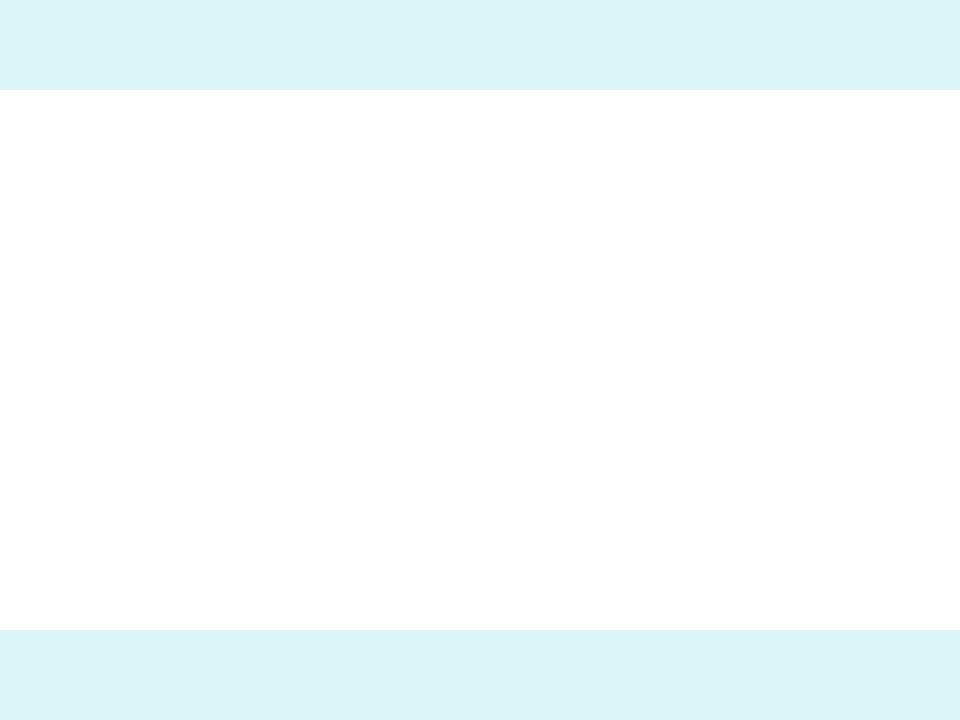


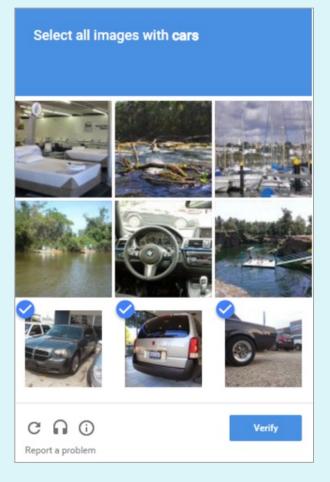


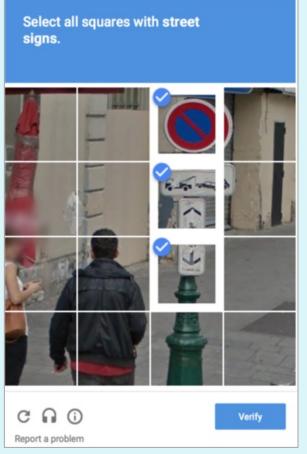








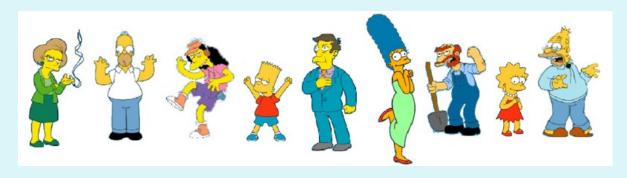




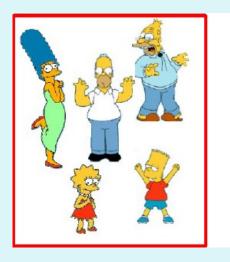


"Es terrible la calidad de esta cámara, me arrepiento de haberla comprado" "No quiero volver a este restaurant, su atención fue terrible" "Regla: si contiene la palabra **TERRIBLE** el texto es *negativo*" "Acabo de llegar a casa, terrible fiesta!"





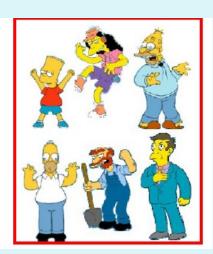
Opción 1





Opción 2











#### Sobre UTEC - Suroeste :: UTEC

Creador: Juan Manuel Ramos

Copyright: Juan Manuel Ramos Juan Manuel Ramos

¿Quieres saber de dónde proceden estos datos? Más información

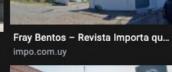
#### Imágenes relacionadas



Visitar



INFORIO - UTEC: periodo de inscri... inforio.com.uy









Luz & Arte - UTEC Fray Bentos



Nómada - Instituto Tecnologico R... nomada.uy





### Películas emocionantes basadas en programas













### **Tendencias**













### Continuar viendo contenido de DANIEL















# Coffee Break 🥯

