



Inteligencia Artificial

#Paneles CAI

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¿Qué es la Inteligencia Artificial?

- Sistema (virtual o físico) que **toma decisiones** de manera **inteligente** y **autónoma** en un medio ambiente **variable** e **incierto**



¿Qué es la Inteligencia Artificial?

La calidad de un sistema de IA depende del **grado de...**

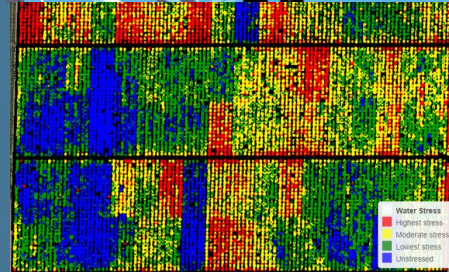
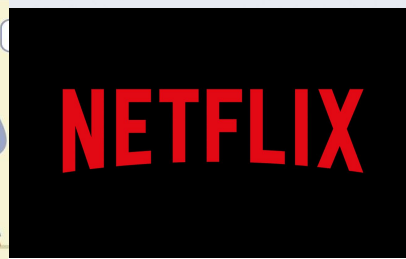
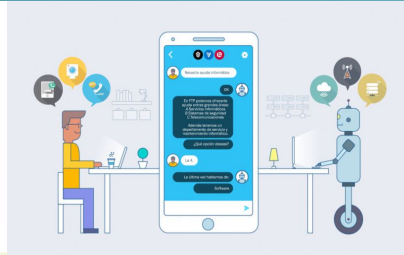
- **Inteligencia**, alcanzar objetivos complejos satisfaciendo restricciones (eficiencia, tiempo, reliability, seguridad, etc.)
- **Autonomía**, independencia de un supervisor humano
- **Variabilidad** del medio ambiente que puede soportar
- **Incertidumbre** del medio ambiente que puede soportar
- **Impacto** de las decisiones que toma



IA = General Purpose Technology



Google

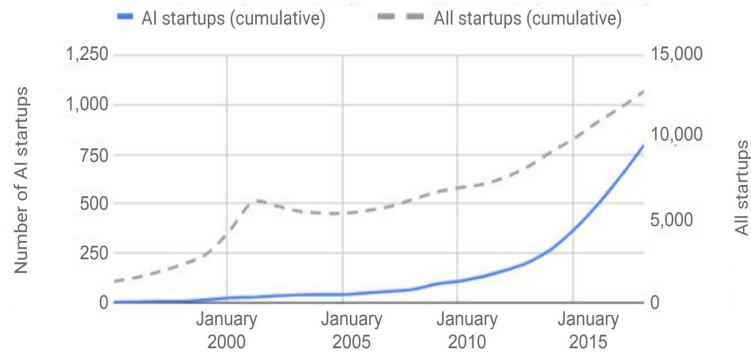


“AI is the New Electricity”
Prof. Andrew Ng, Stanford

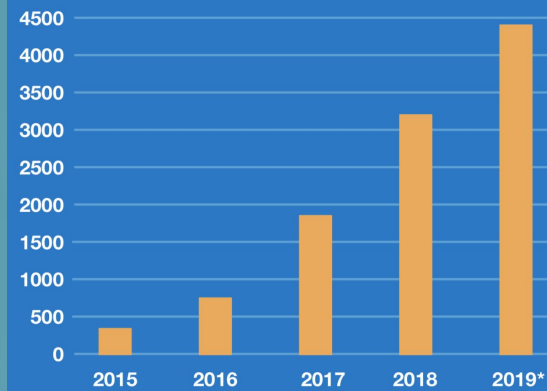
La Ola de la IA

AI startups (U.S., January 1995 – January 2018)

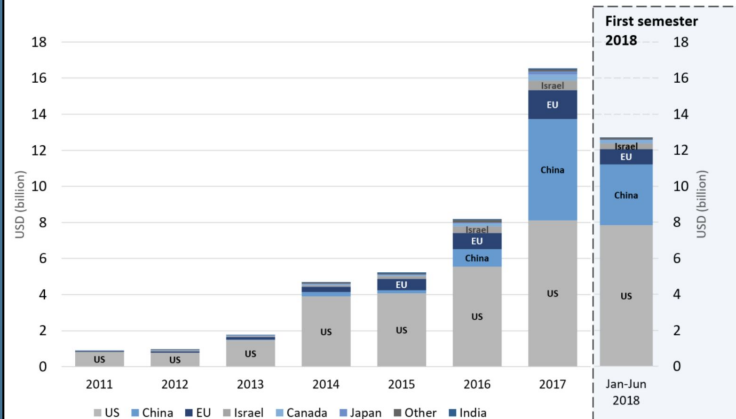
Source: Sand Hill Econometrics



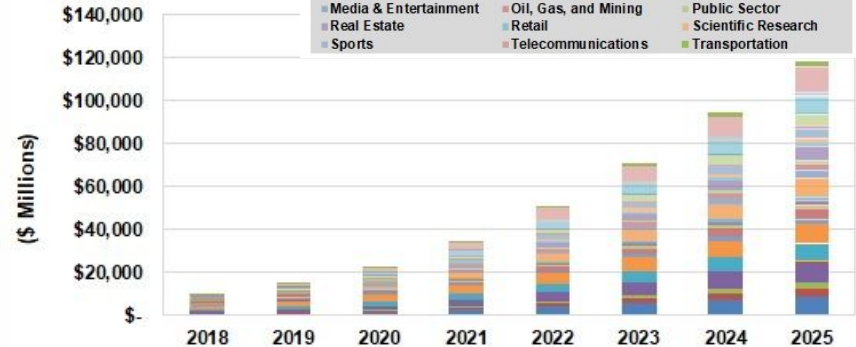
SPECIALIST VACANCIES IN THE AI ECOSYSTEM
United Kingdom (UK)



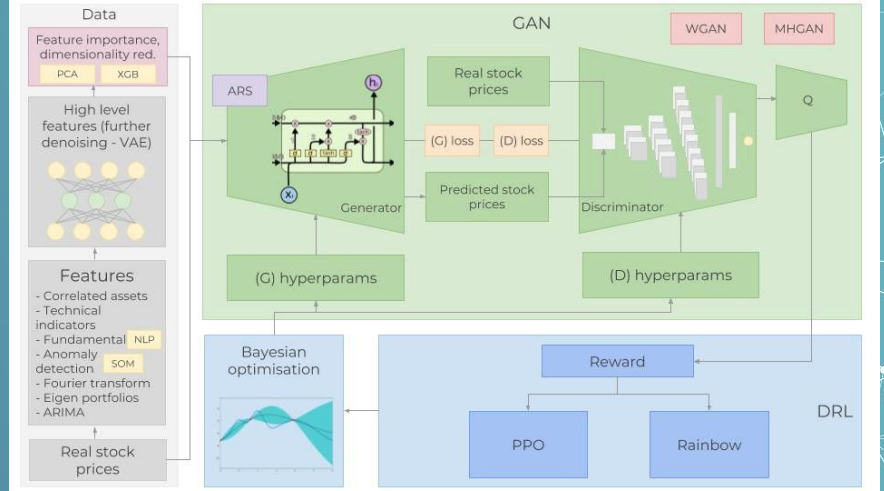
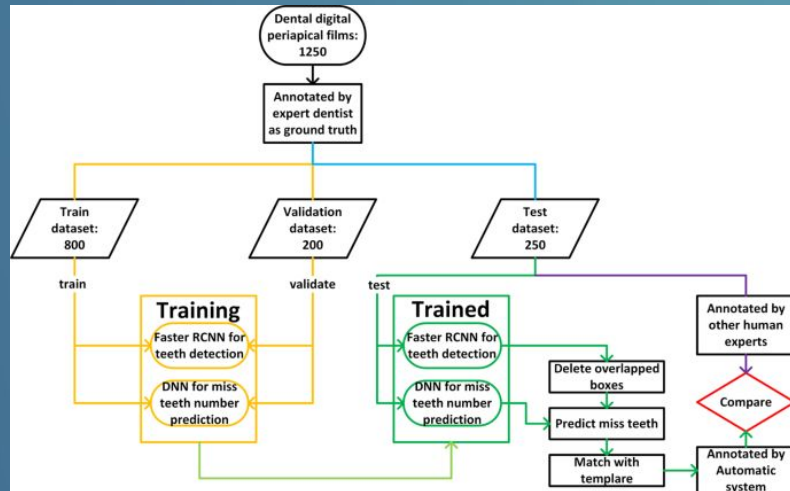
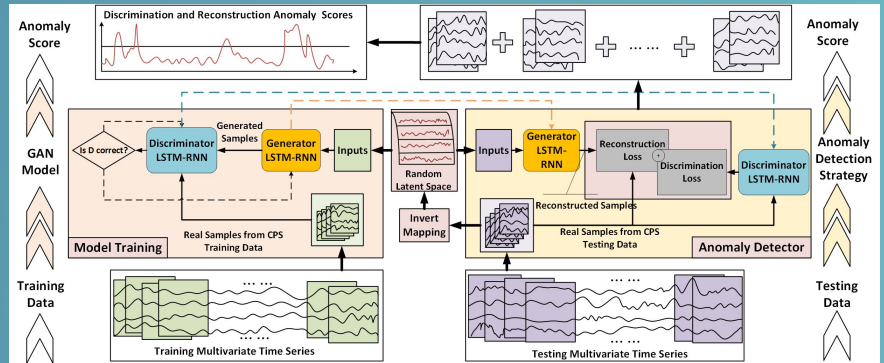
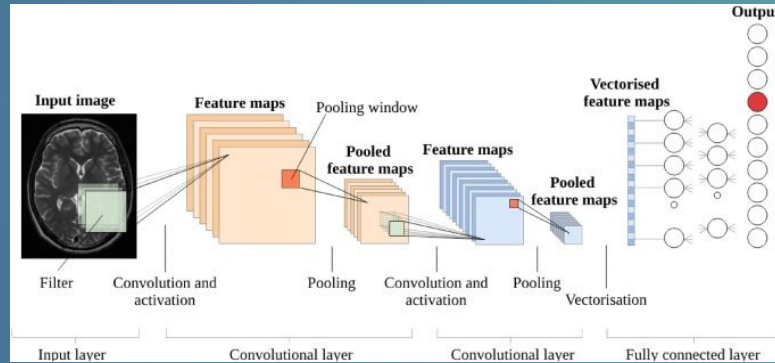
2011-17 and first semester 2018



Tractica
Annual AI Software Revenue



Inteligencia Artificial, nueva área de la Ingeniería



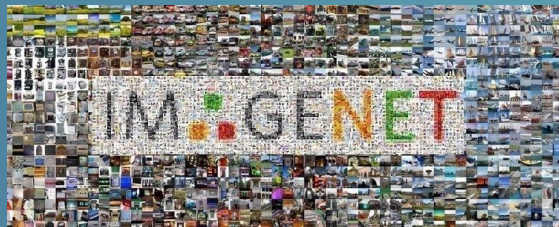


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Hitos de la Inteligencia Artificial



2005 - Completan el DARPA Grand Challenge



2012 - AlexNet gana ImageNet usando **Deep Learning**



2014 - Waymo empieza test drive de Firefly

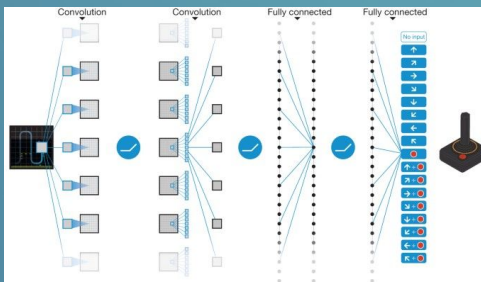


2018 - Waymo obtiene permiso del California DMV

2006 - Geoffrey Hinton publica **Deep Belief Nets** paper



2013 - **Deep Reinforcement Learning** para Atari



2017 - DeepMind gana GO usando **Deep Reinforcement Learning**

