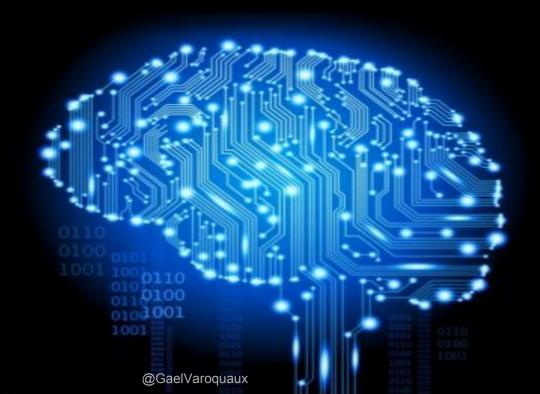




¿Qué es el Aprendizaje Automático? Machine Learning

Machine learning in a nutshell

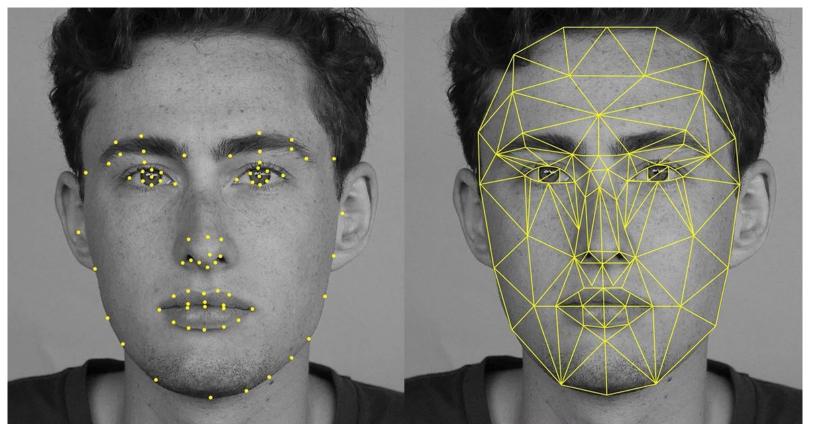
Machine learning is about making prediction from data





¿Cuáles son sus Aplicaciones?

Reconocimiento de Imágenes



Sistema de Recomendación





Reconocimiento de Voz



Segmentación de Clientes

TYPES OF CUSTOMER SEGMENTS

NPV PER CUSTOMER



• VALUE CONVENIENCE IN DELIVERY. ORDERING

- HIGH INCOME
- LONG RELATIONSHIP, LARGE REFERRALS



CONVENIENCE SEEKERS



BRAND BUYERS, NOT PRICE SENSITIVE

- . HIGHEST INCOME, MORE OFTEN MALE
- EXPENSIVE TO ACQUIRE, BUT BUY MOST INITIALLY AND REFER MORE



CASUAL BUYERS

- NOT CONCERNED WITH PERISHABLES OR DELIVERY TIME WINDOWS
- SMALL SPENDING GROWTH



RELATIONSHIP SEEKERS

- INFLUENCED BY RETAILER BRAND, SUGGESTIONS, AND PROMOTIONS
- LOW INCOME
- SMALL SPENDING GROWTH/REFERRAL





PRICE IS PRIMARY AND PERISHABLES ARE NOT IMPORTANT

- LOW INCOME
- SMALL PURCHASES

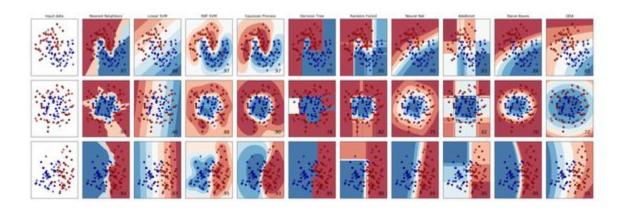




¿Qué es Scikit-Learn?

Definición





Scikit-learn es una librería de Python para dar soporte a los algoritmos de aprendizaje automático (*Machine Learning*).

Scikit-learn soporta algoritmos de clasificación, regresión y agrupamiento.

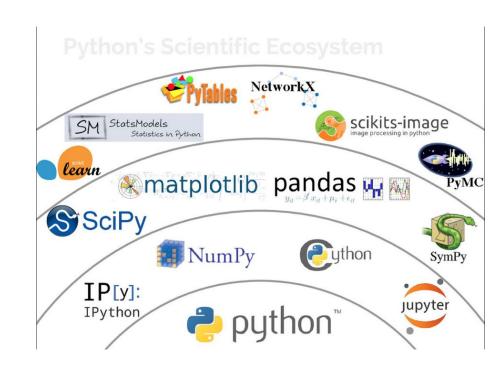
Scikit-learn está basado en NumPy, SciPy y matplotlib



Ecosistema Científico para Python



Scikit-Learn es un conjunto de herramientas para facilitar el aprendizaje basado en los datos.

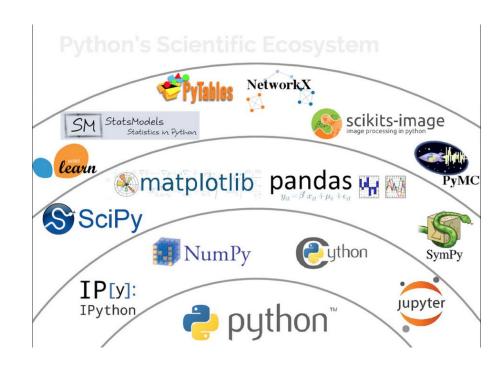




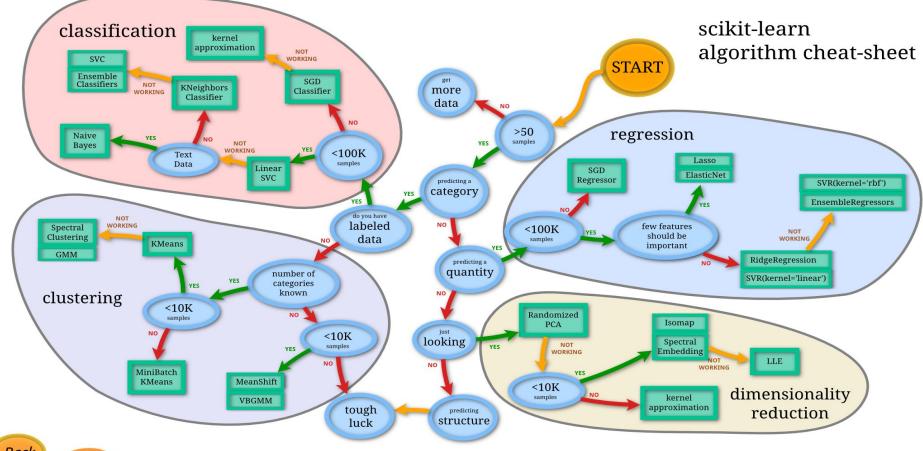
Ecosistema Científico para Python



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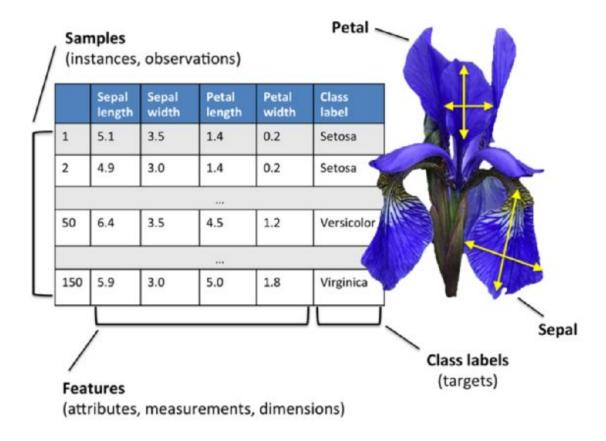








scikit-learn Data Structure







Características del Aprendizaje Automático

SUPERVISED LEARNING

Develop predictive model based on both input and output data CLASSIFICATION

REGRESSION

UNSUPERVISED

Group and interpret data based only on input data

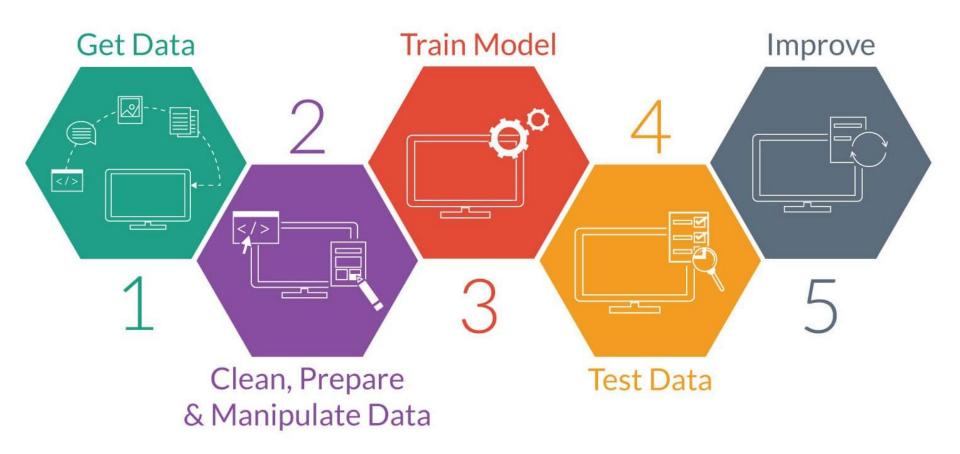
LEARNING

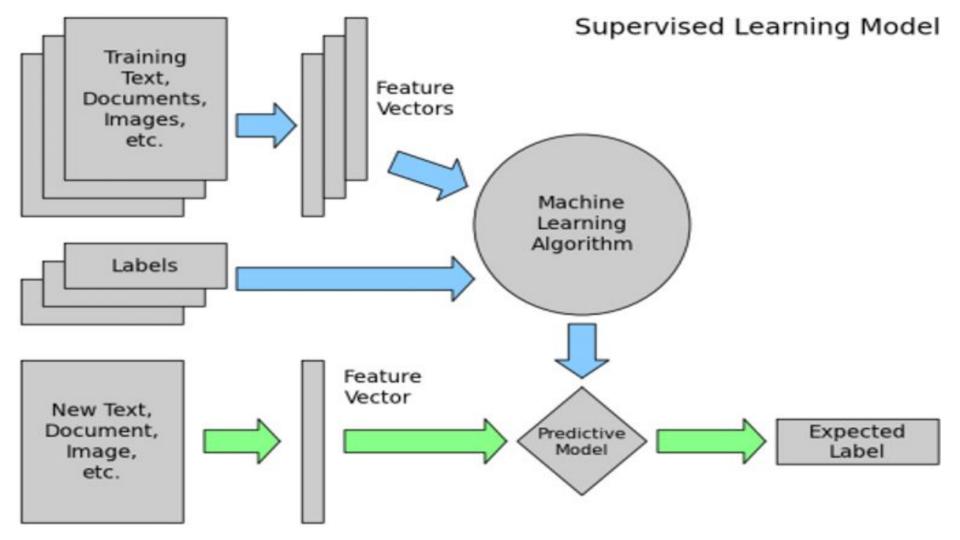
CLUSTERING

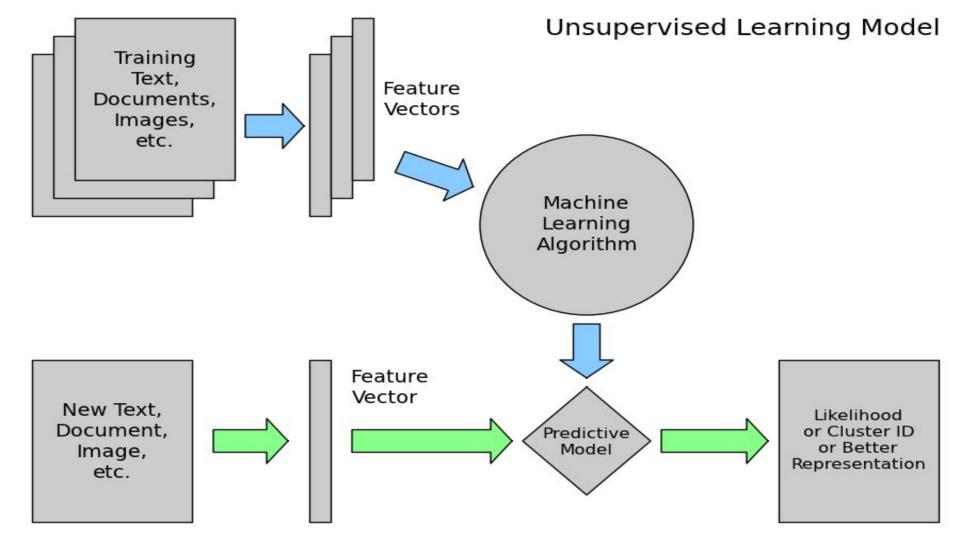
MACHINE LEARNING



Procesos del Aprendizaje Automático





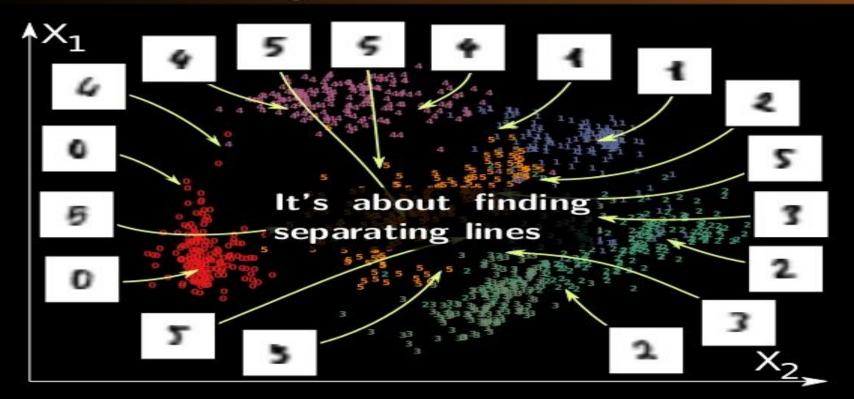




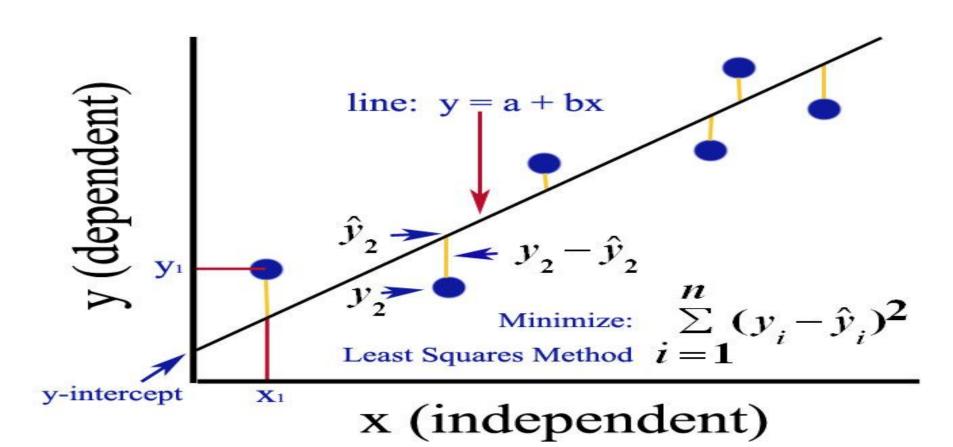
Modelos Predictivos

Clasificación

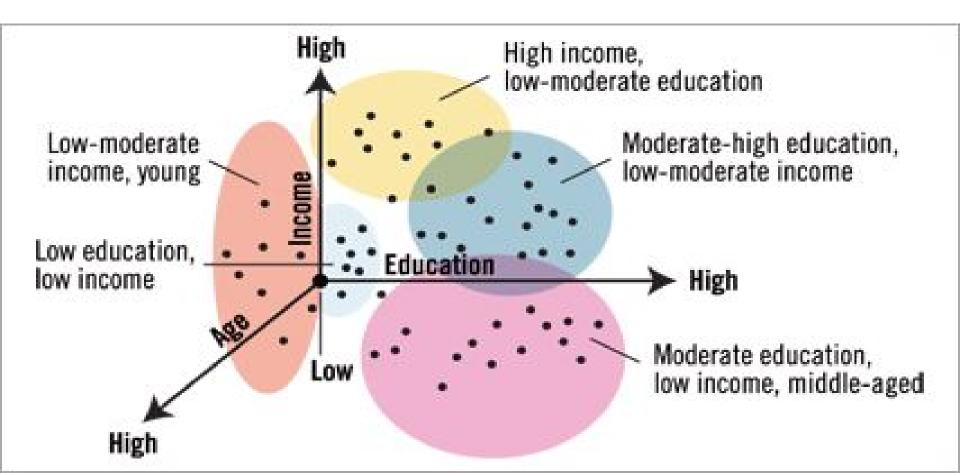
1 Machine learning in a nutshell: classification



Regresión



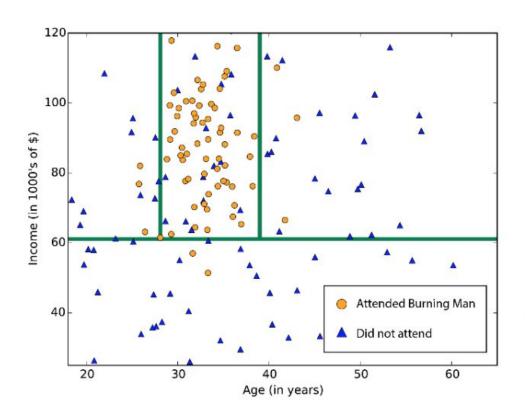
Agrupación

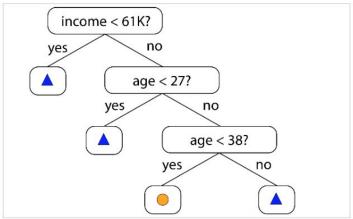




Algoritmos de Aprendizaje

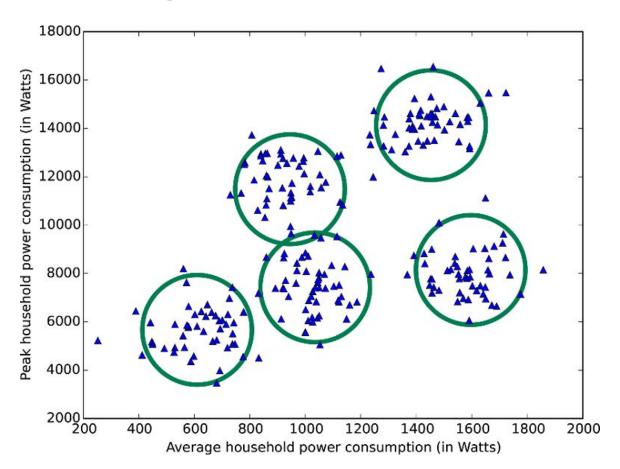
Clasificación - Árboles de Decisión





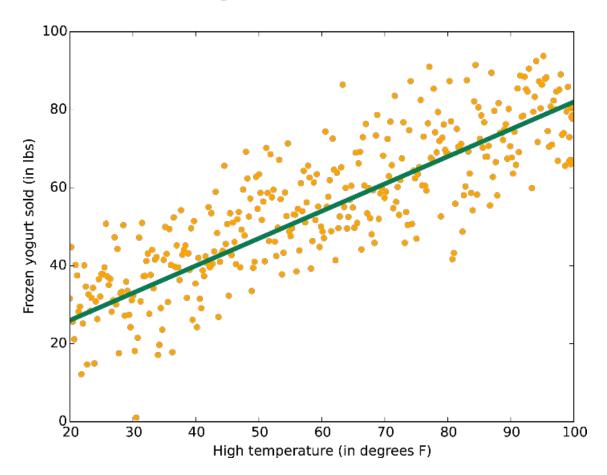


Agrupación: K-Means





Regresión Lineal





Regresión basada en Arboles de Decisión

