Quantum Abya Yala

Quantum Machine Learning

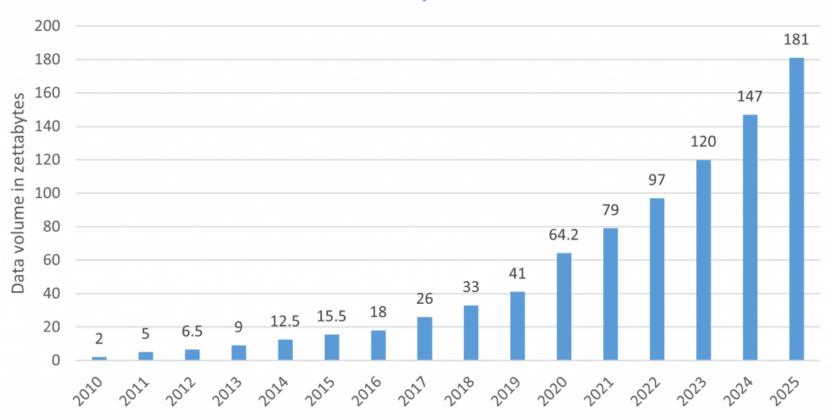
Construyendo un clasificador cuántico variacional



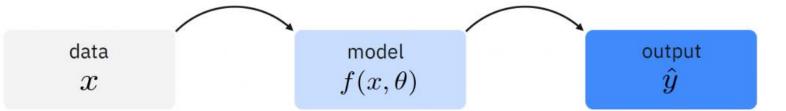


Crecimiento Exponencial de los Datos

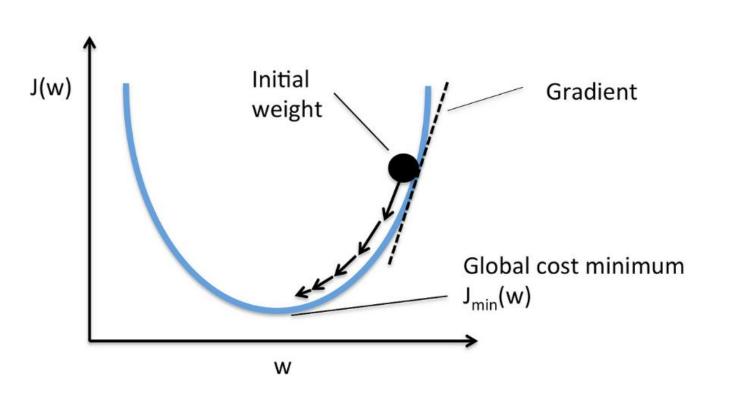
Volume of data created and replicated worldwide (source: IDC)



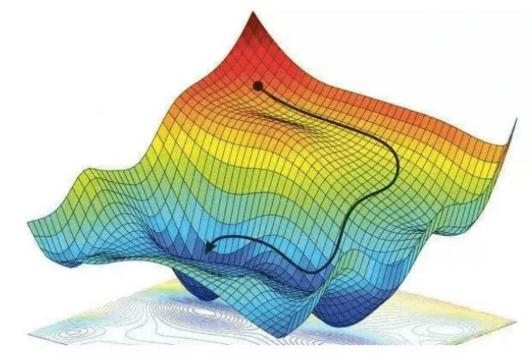
MACHINE LEARNING



¿Cómo "aprende" un modelo de ML?

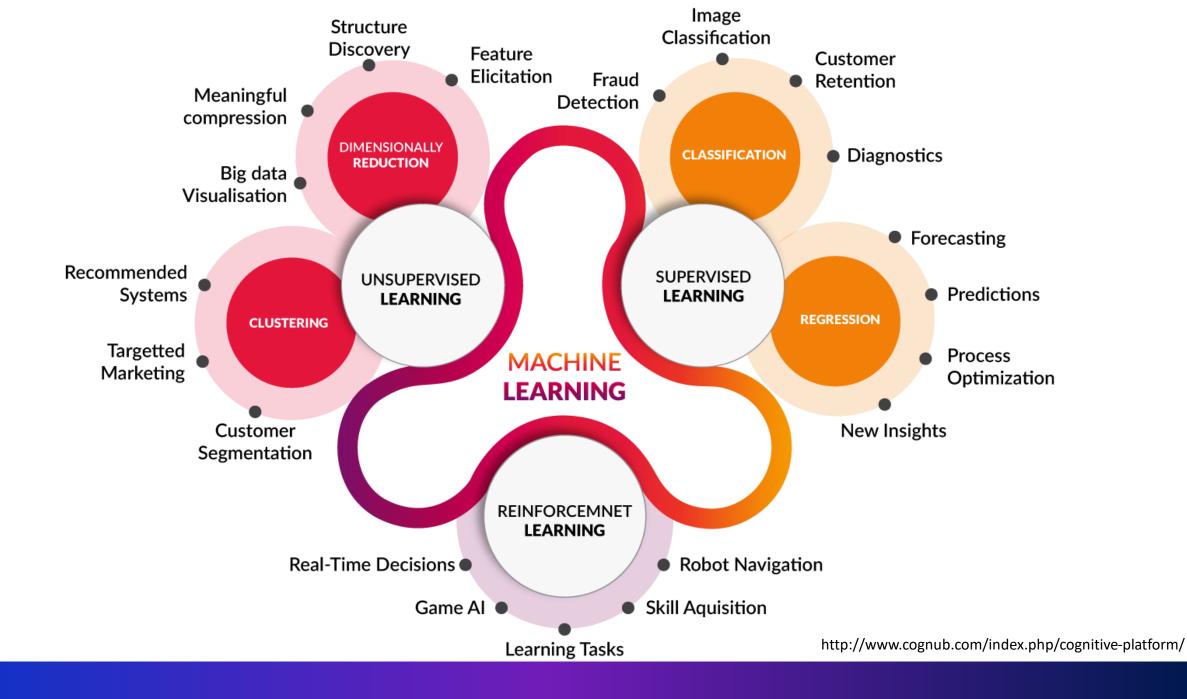


$$J(ec{w},b) = rac{1}{m} \sum_{i=1}^m L(\hat{y}^{(i)},y^{(i)})$$



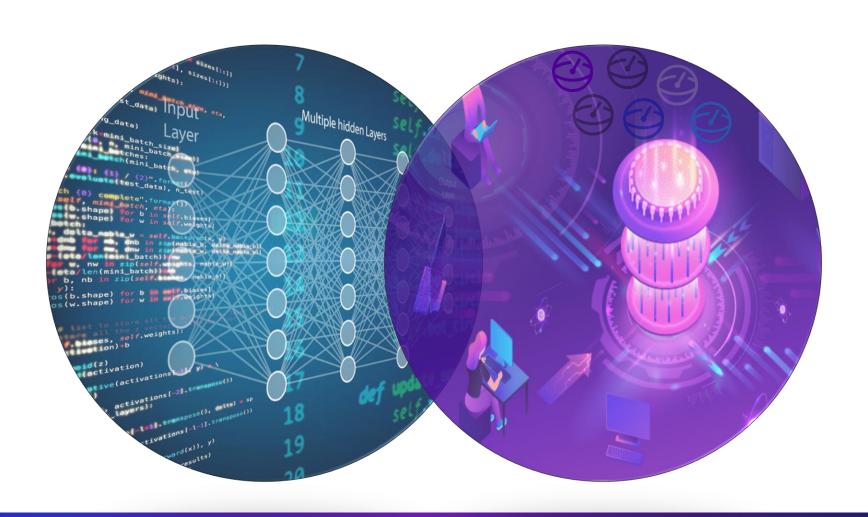
$$w = w - \alpha \frac{\partial J}{\partial w}$$

$$b = b - \alpha \frac{\partial J}{\partial b}$$

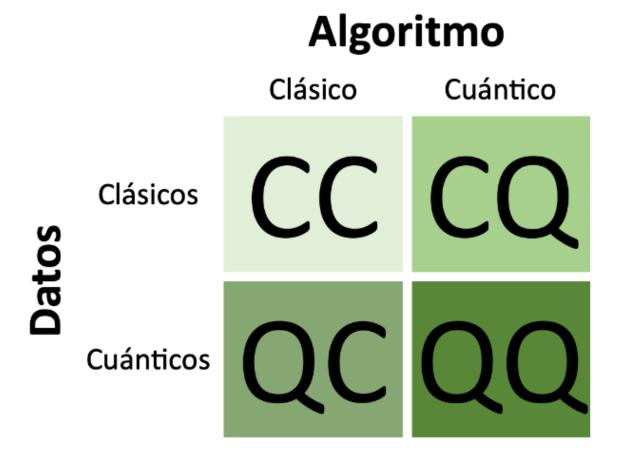




QUANTUM MACHINE LEARNING



Categorías de ML/QML



¿Sirve de algo aprender QML?



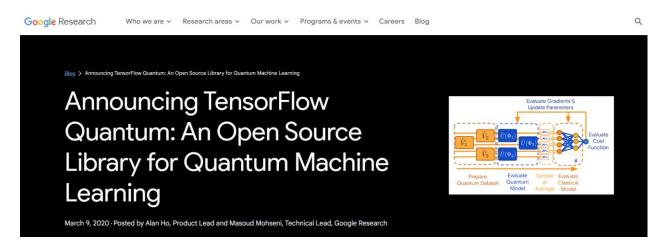
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News → News → Topic: Computing

Voir en français

Shaping future quantum techniques in machine learning at CERN

20 DECEMBER, 2023 | By Mariana Velho





HANDS-ON CON PENNYLANE

pip install pennylane

import pennylane as qml











GRACIAS

Claudia Zendejas-Morales me@claudiazm.xyz

QWorld, Co-coordinator of the QEducation Department QuantumQuipu, Research Department Leader and Quantum Fellow IBM Quantum, Qiskit Advocate