



konfío

Konfío Day

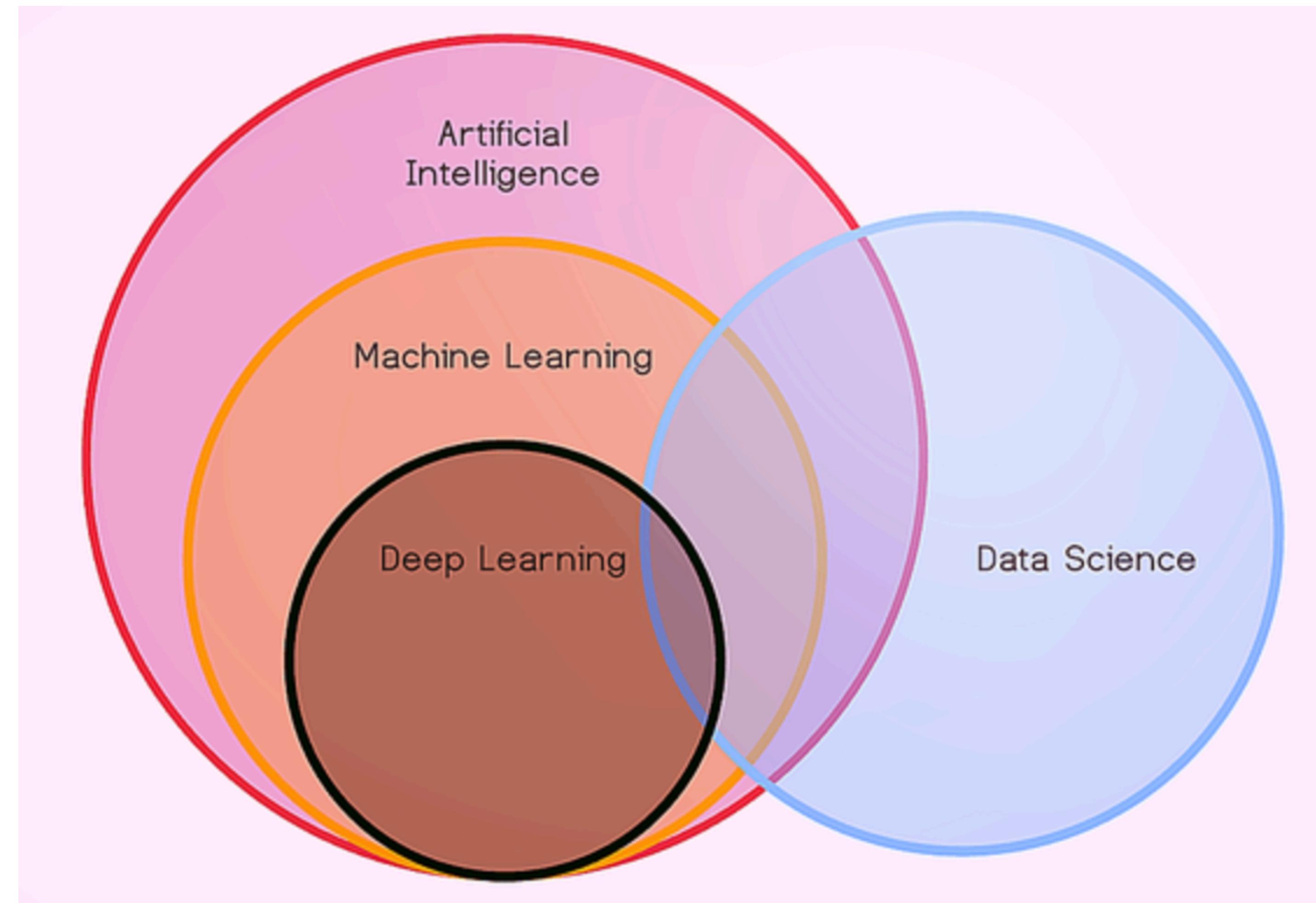
IA, ML & Introducción a la
Ciencia de Datos

■ AGENDA

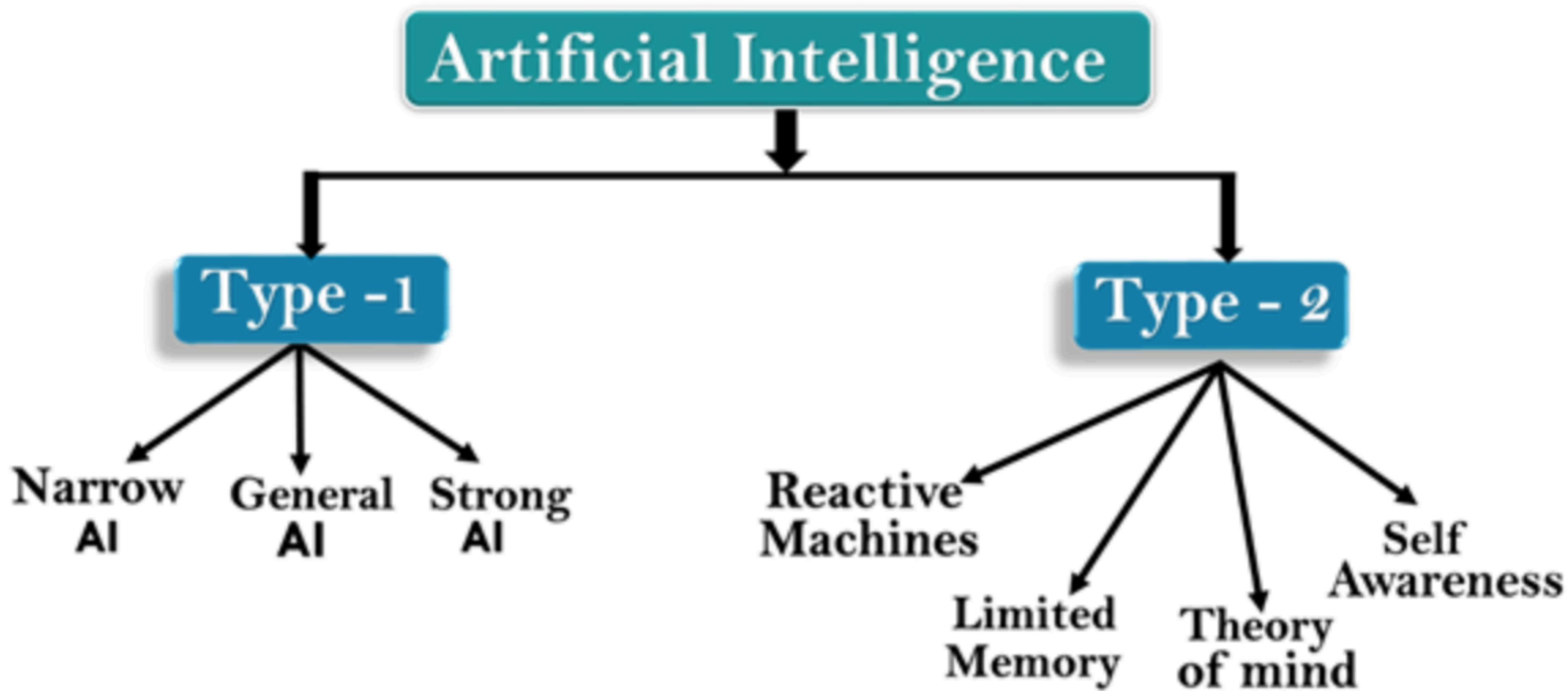
- IA Hoy & Futuro
- Tipos de aprendizajes
- Algoritmos
- Contexto que permitió el nacimiento de DS
- ¿Qué es la Ciencia de Datos?
- Skills necesarios
- Metodología de trabajo
- Kaggle Survey
- Demo



■ DEFINICIÓN



■ TIPOS IA

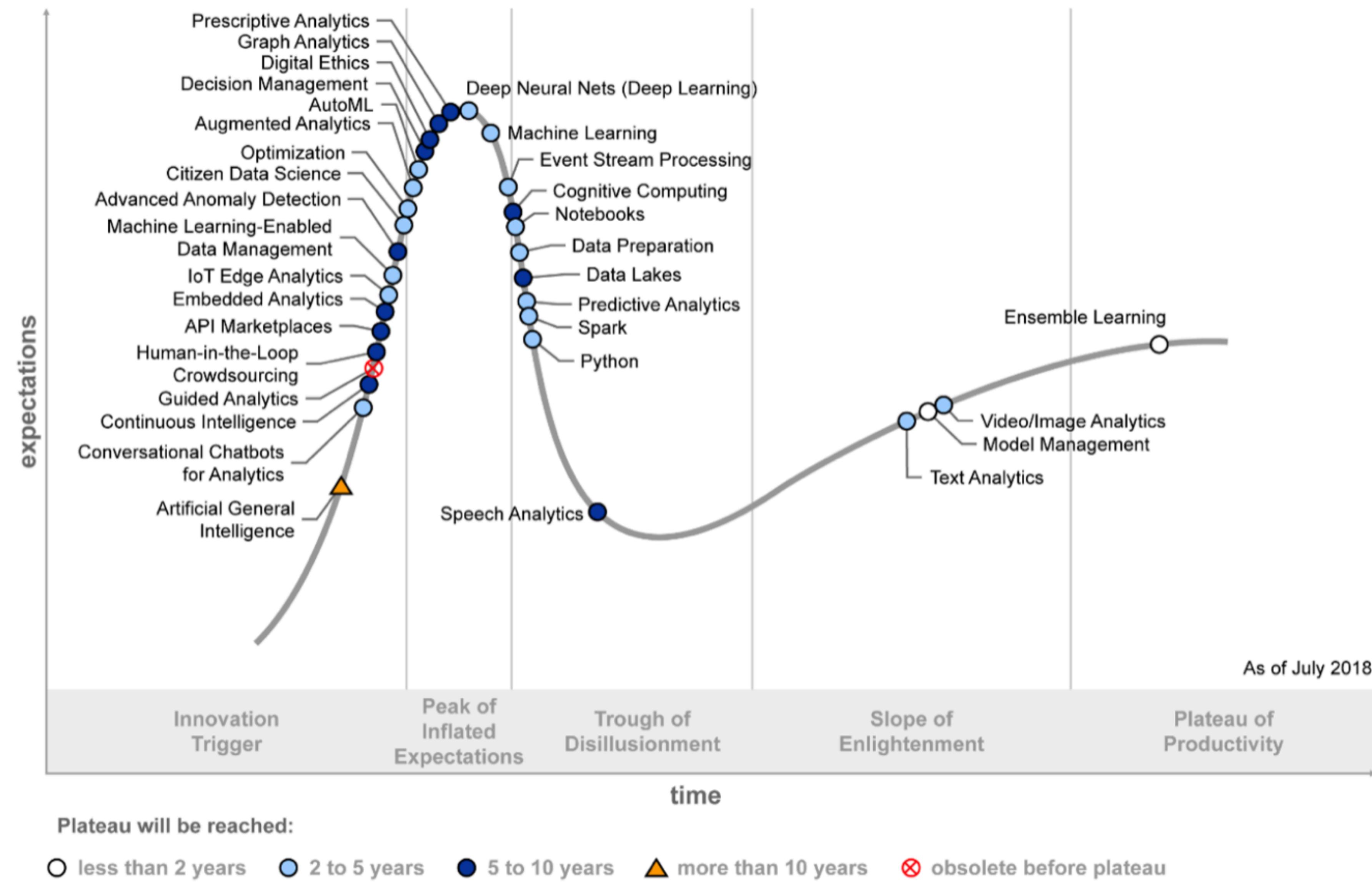


■ IA HOY

AI == ML



■ HYPE CYCLE FOR DS AND ML 2018



■ HYPE CYCLE FOR DS AND ML 2019

- On the Rise
 - Quantum ML
 - Federated Machine Learning
 - Generative Adversarial Networks
 - Adaptive ML
 - Reinforcement Learning
 - Transfer Learning
 - AI Cloud services
 - Data Labeling and Annotation Services
 - Synthetic Data
 - Explainable AI
- At the Peak
 - Continuous Intelligence
 - Edge Analytics
 - MLOps
 - Citizen Data Science
 - Decision Management
 - Augmented Analytics
 - AutoML
 - Conversational User Interfaces
 - Digital Ethics
 - Deep Neural Networks (Deep Learning)
 - Graph Analytics
 - Prescriptive Analytics
 - Advanced Anomaly Detection
 - Event Stream Processing
- Sliding Into the Trough
 - Advanced Video/Image Analytics
 - Augmented Data Management
 - Python
 - Spark
- Climbing the Slope
 - Predictive Analytics
 - Notebooks
 - Text Analytics
 - Traditional Model Management



■ IA EN CONTEXTO



Advanced AI and Analytics

- Adaptive machine learning (ML)
- Edge AI
- Edge analytics
- Explainable AI
- AI PaaS
- Transfer learning
- Generative adversarial networks
- Graph analytics

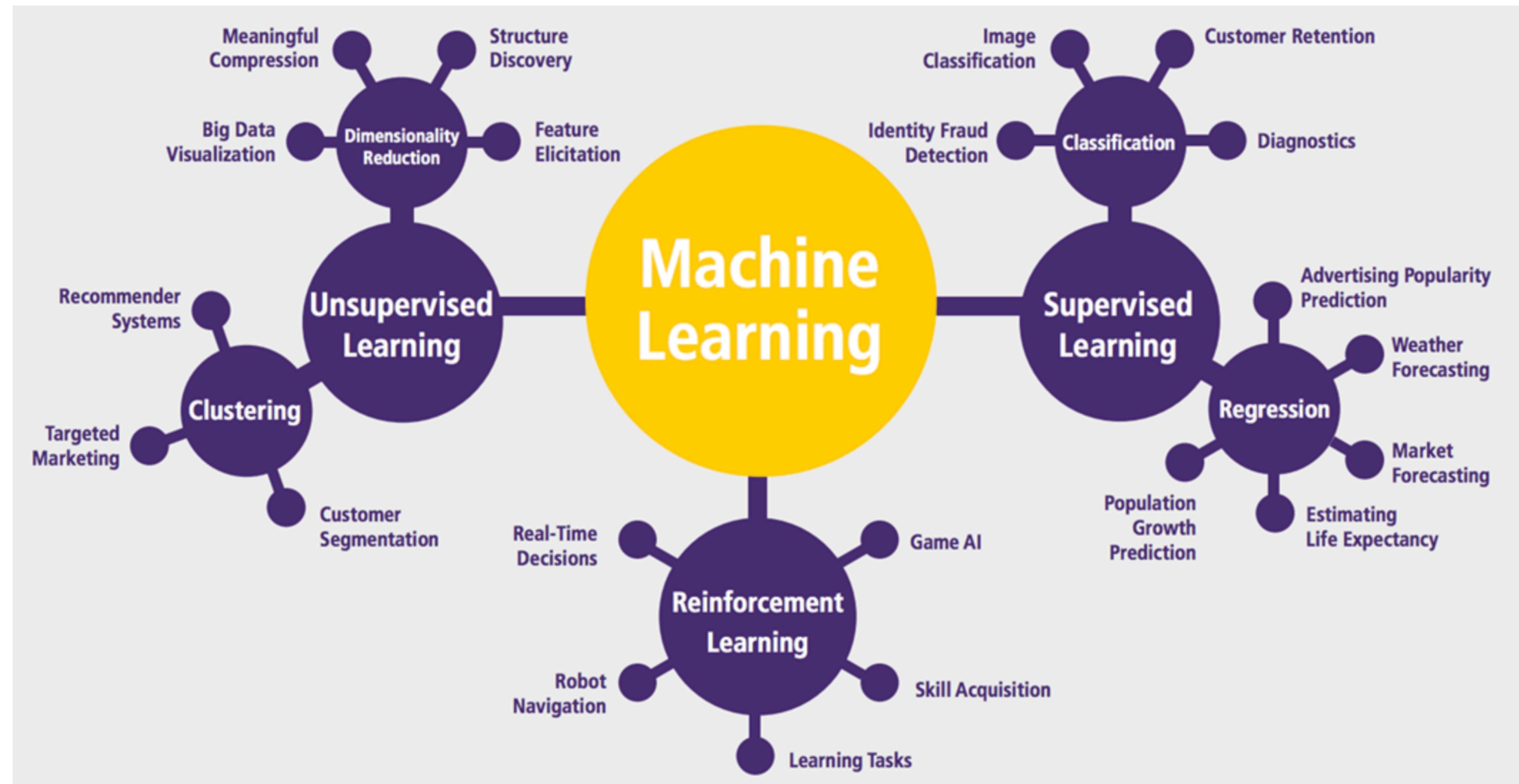
Advanced AI and analytics

Advanced **analytics** is the autonomous or semi-autonomous examination of data or content using sophisticated tools beyond those of traditional business insights. This is the result of new classes of algorithms and data science that are leading to new capabilities, for example transfer learning, which uses previously trained machine learning models as advanced starting points for new technology. Advanced analytics enables deeper insights, predictions and recommendations.

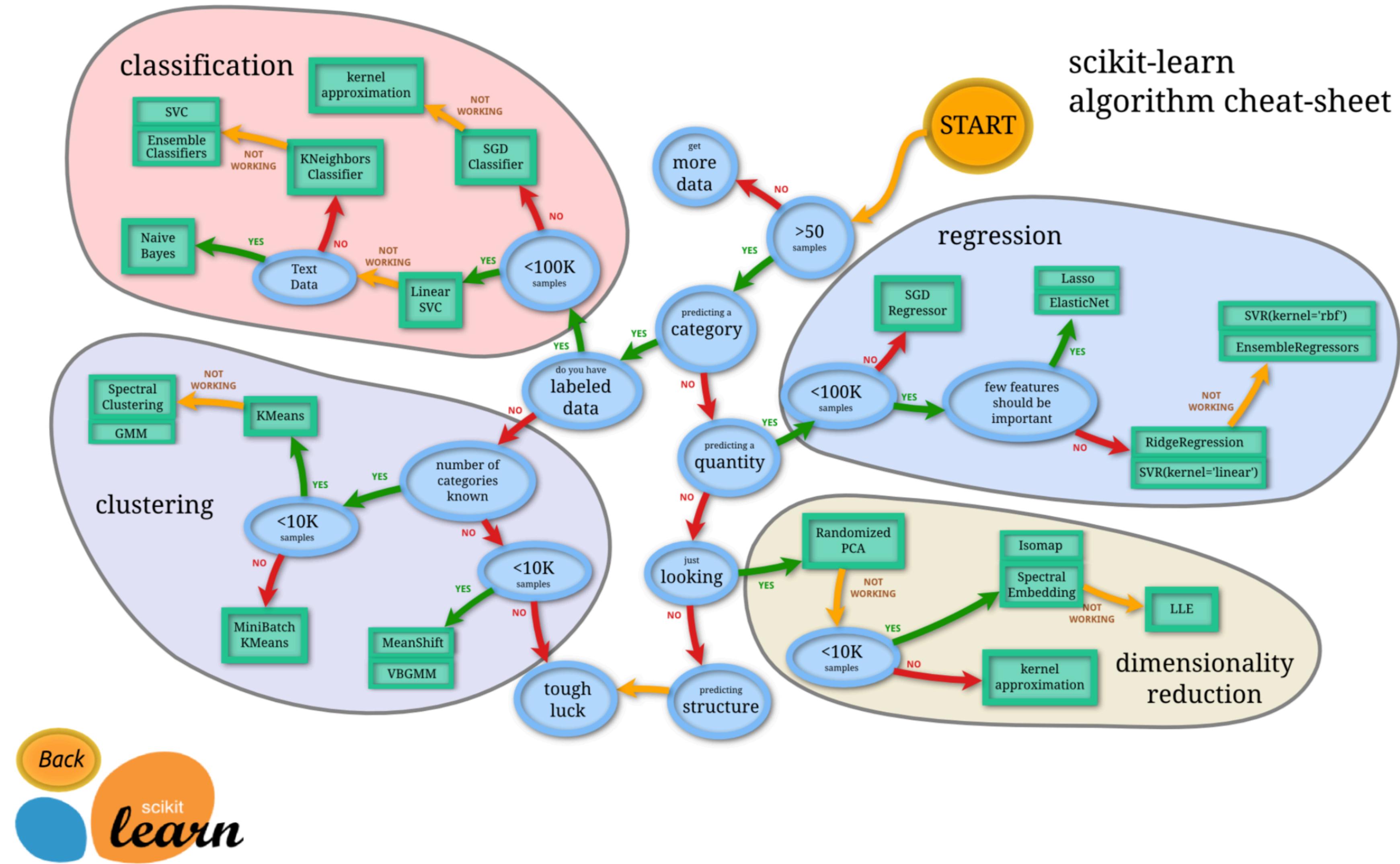
Other technologies in this trend include: Adaptive machine learning, **edge AI**, edge analytics, explainable AI, AI PaaS, generative adversarial networks and graph analytics.



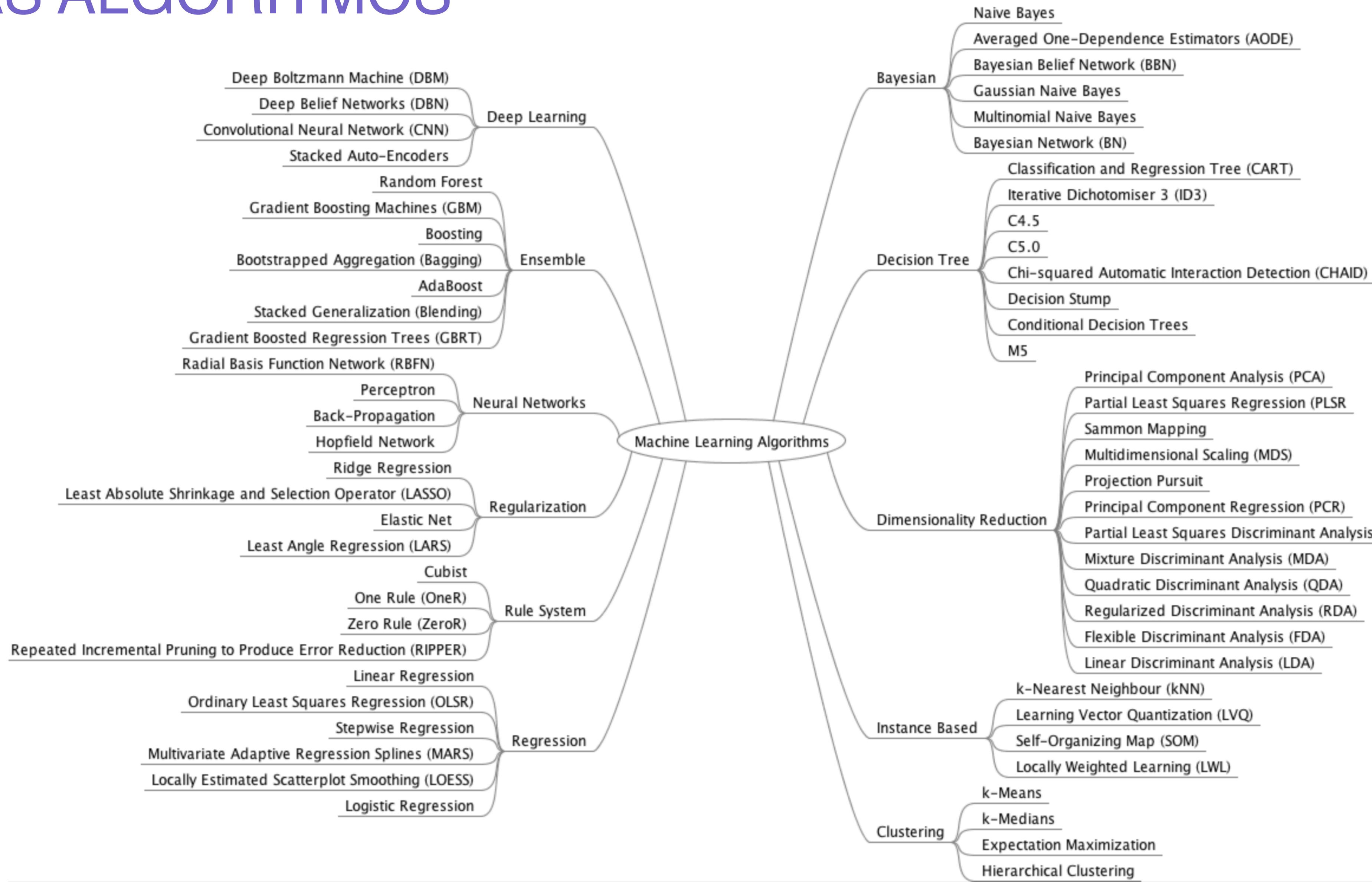
■ TIPOS DE “MACHINE LEARNING”



■ ML ALGORITHM CHEAT SHEET



MÁS ALGORITMOS



2017 This Is What Happens In An Internet Minute



2018 This Is What Happens In An Internet Minute

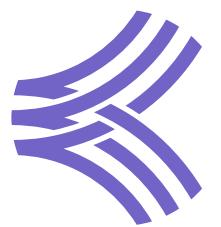


2019 *This Is What Happens In An Internet Minute*

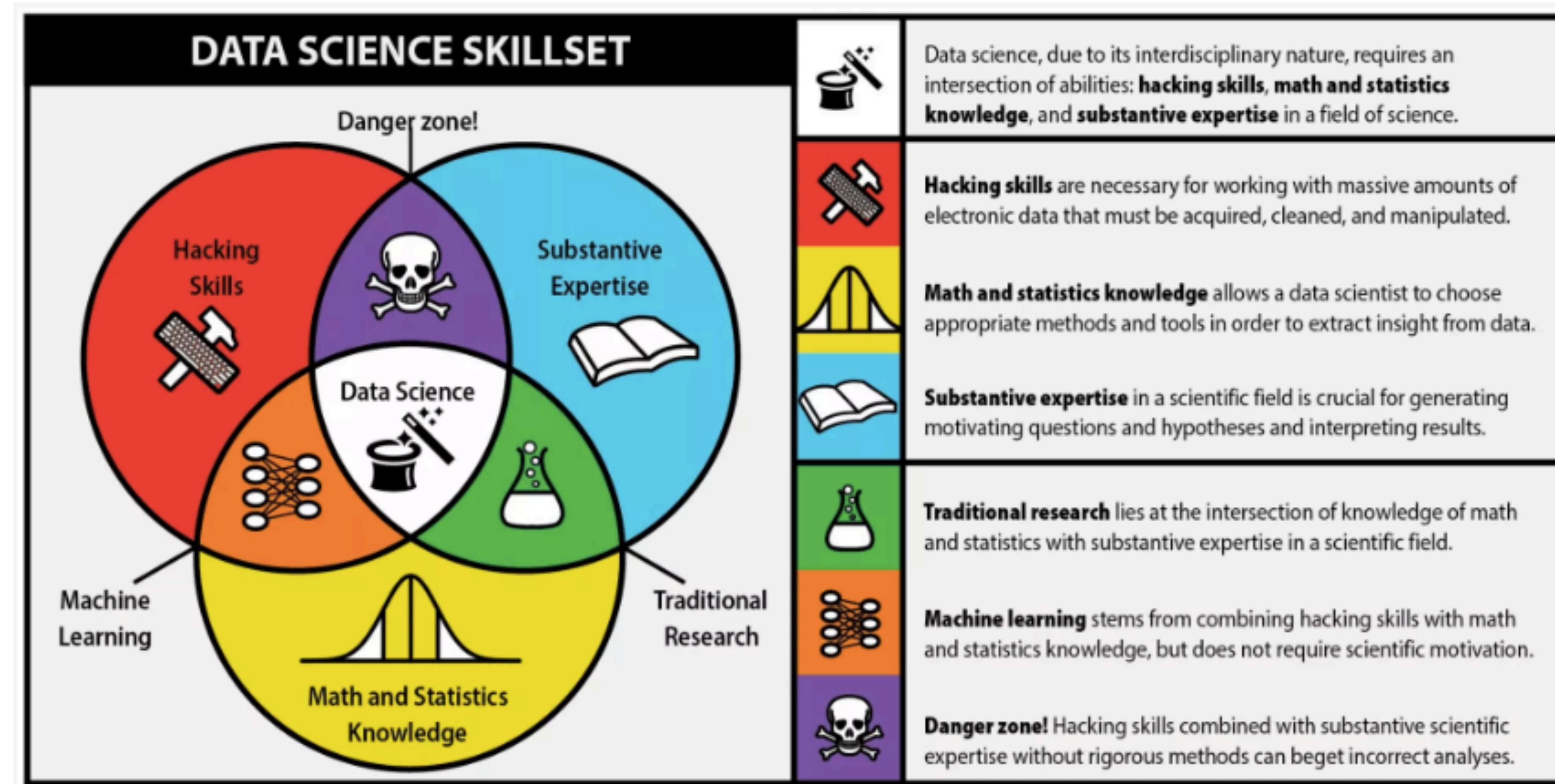




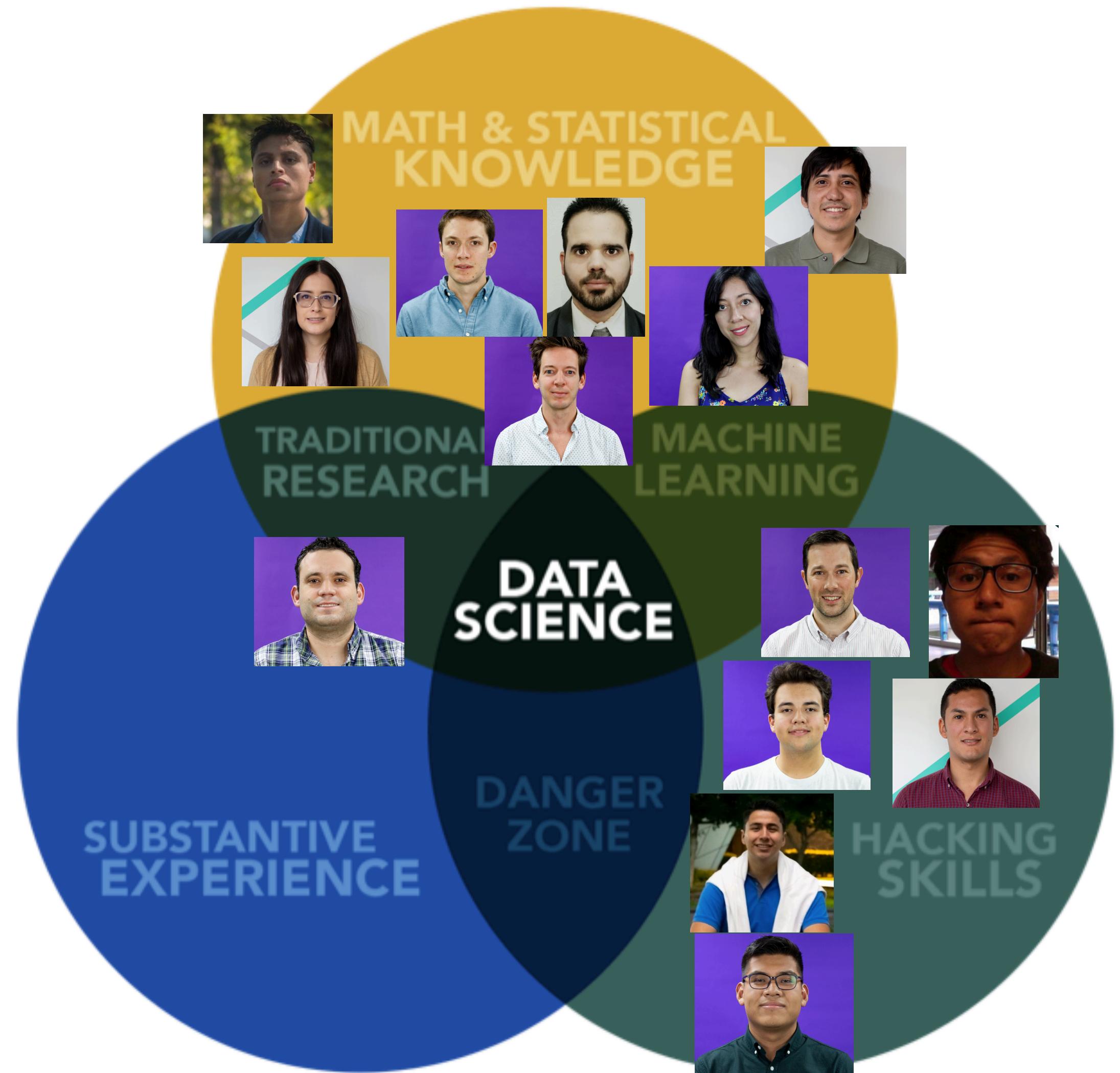




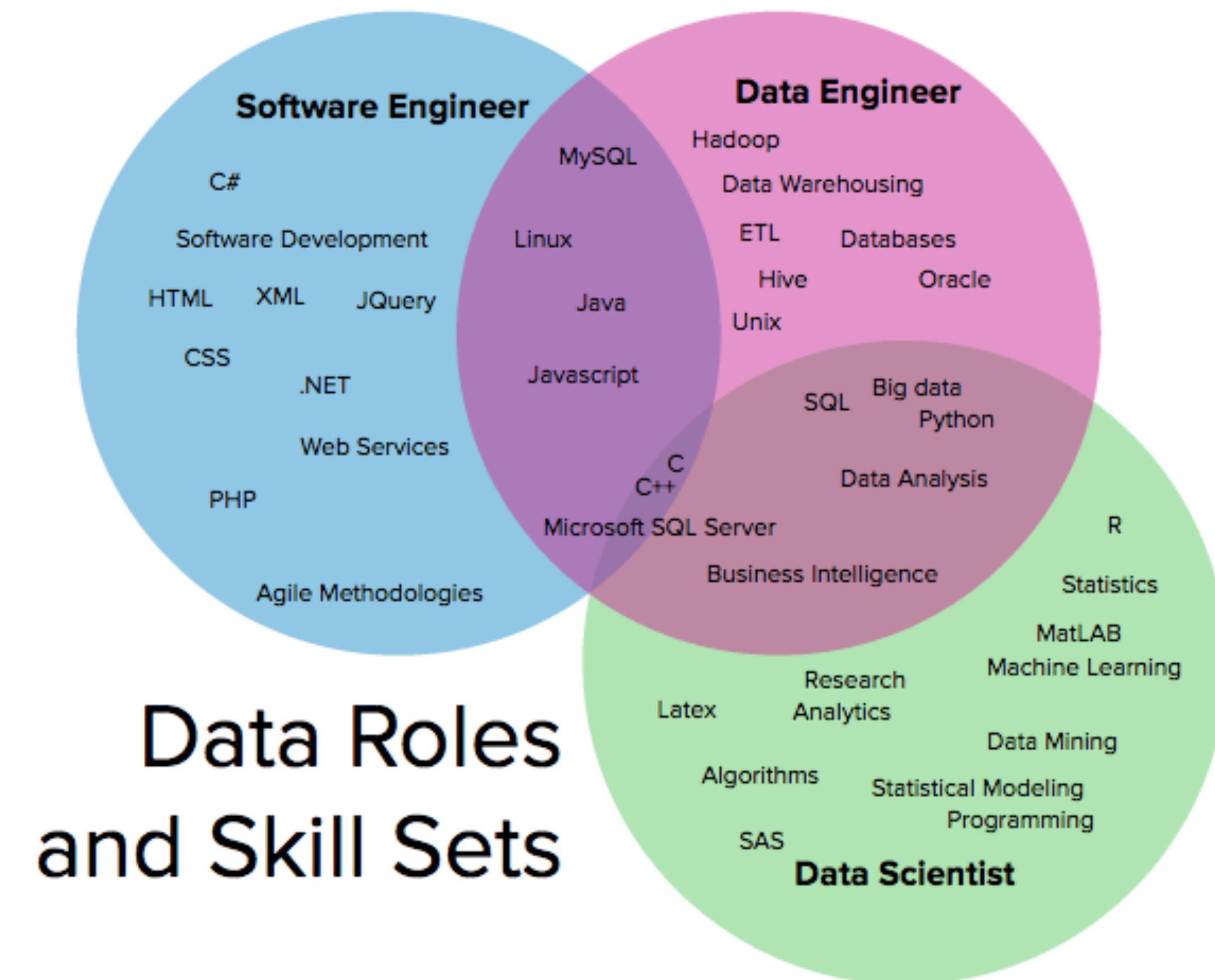
■ ¿QUÉ ES LA CIENCIA DE DATOS?



■ HABILIDADES CIENTÍFICO DE DATOS



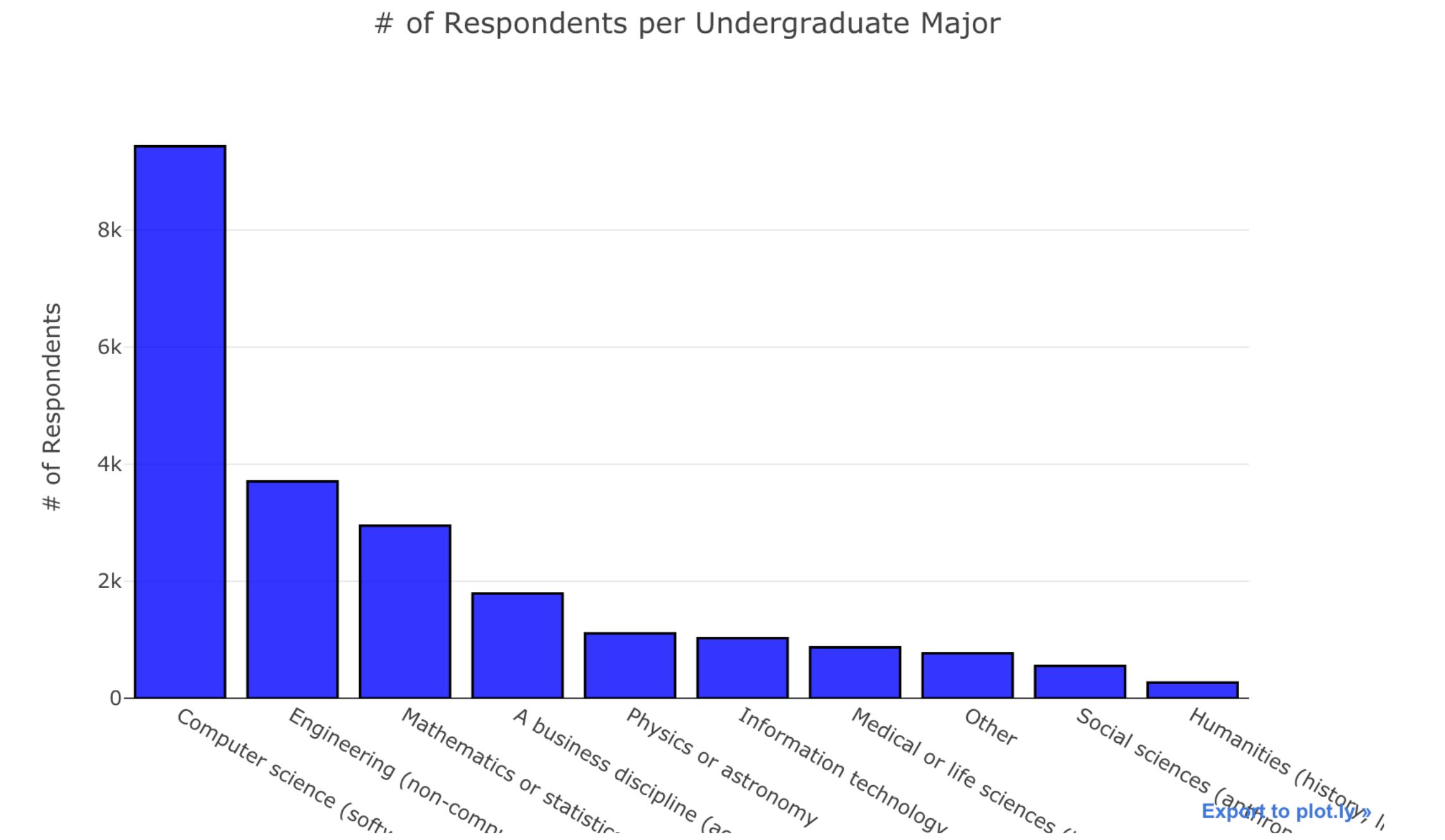
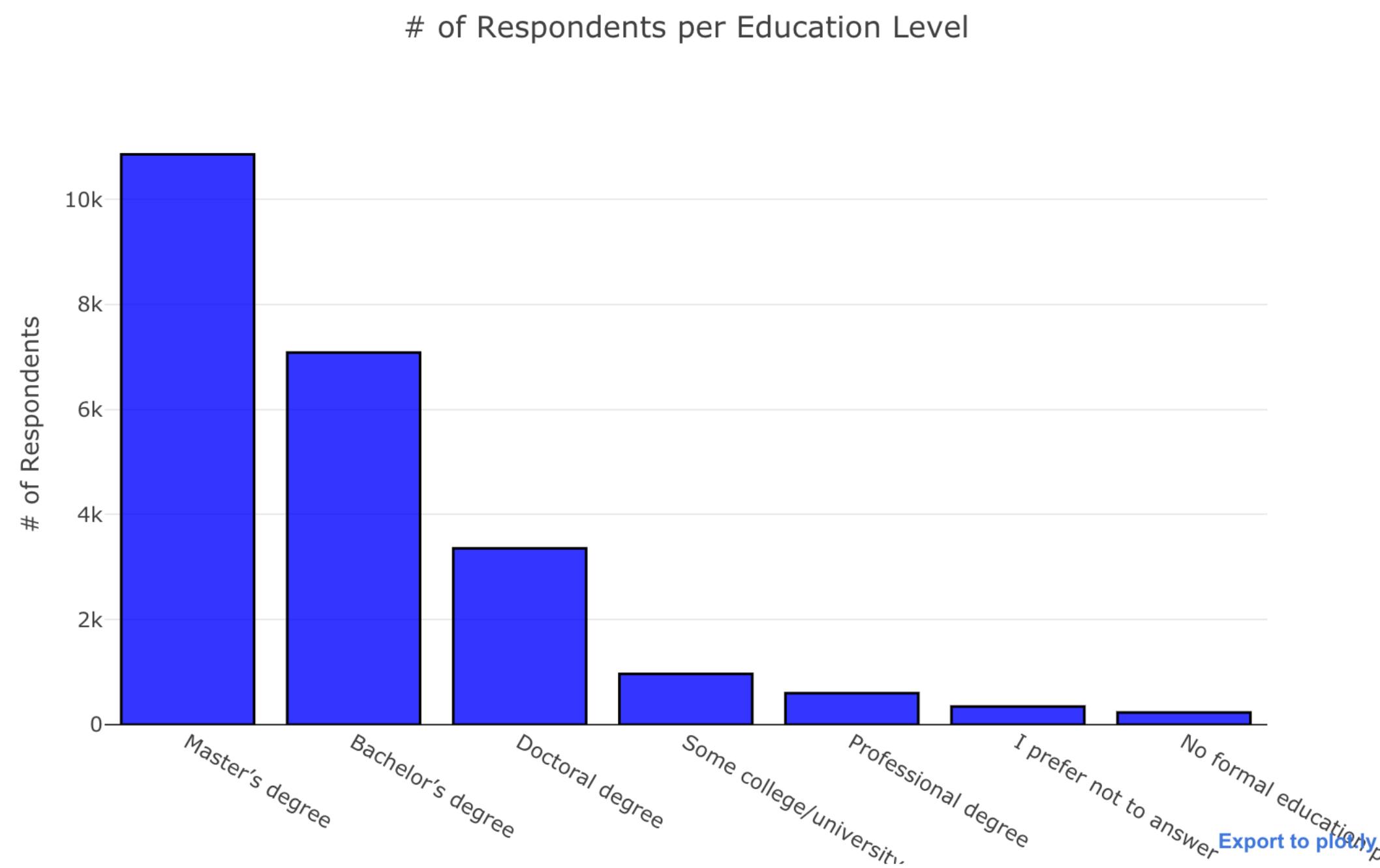
■ HABILIDADES CIENTÍFICO DE DATOS



■ METODOLOGÍA DE TRABAJO DE UN DS EN KONFÍO

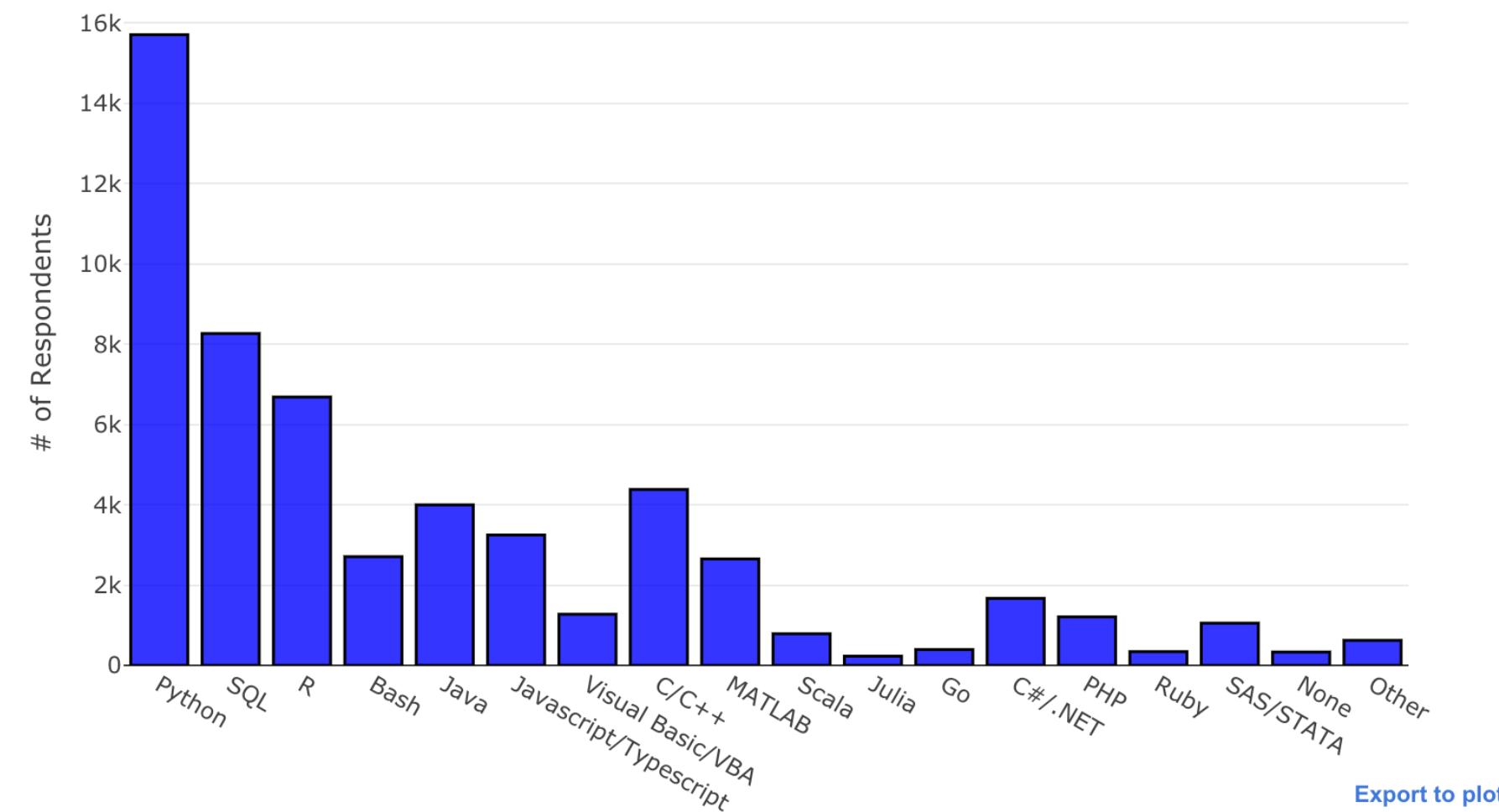


KAGGLE SURVEY 2018



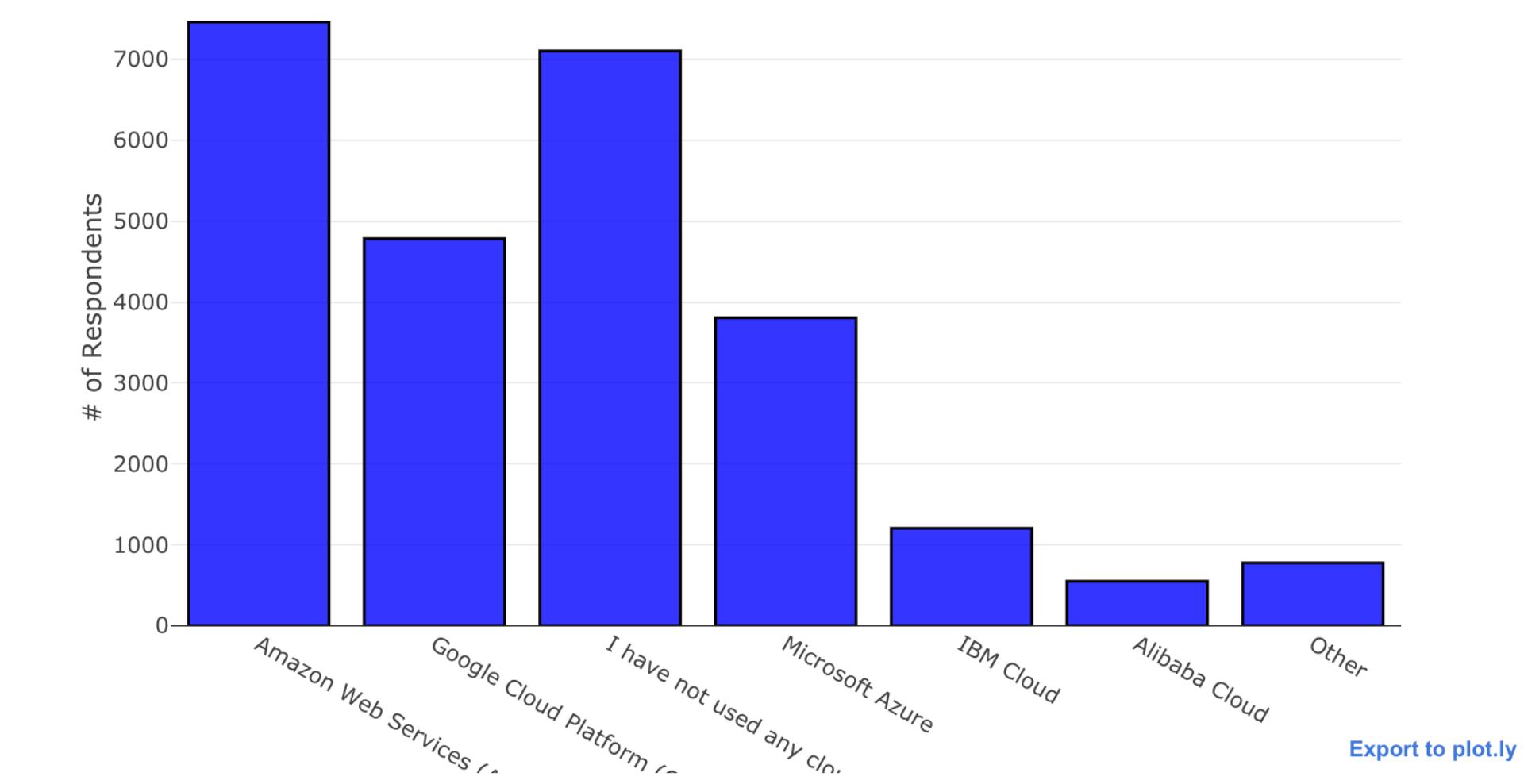
■ KAGGLE SURVEY 2018 - CONT

of Respondents per Programming Language



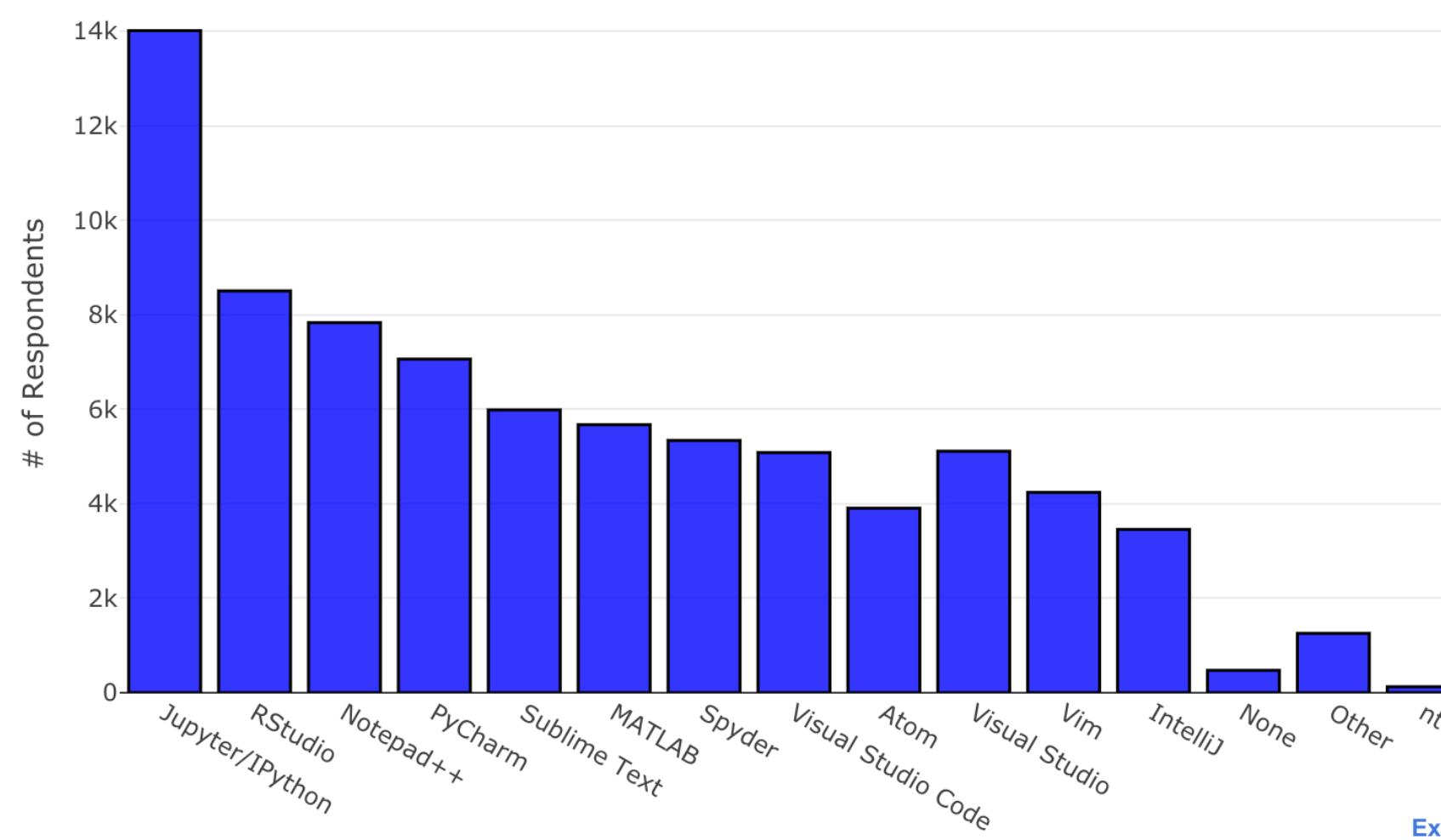
[Export to plot.ly »](#)

of Respondents per Cloud Computing Service

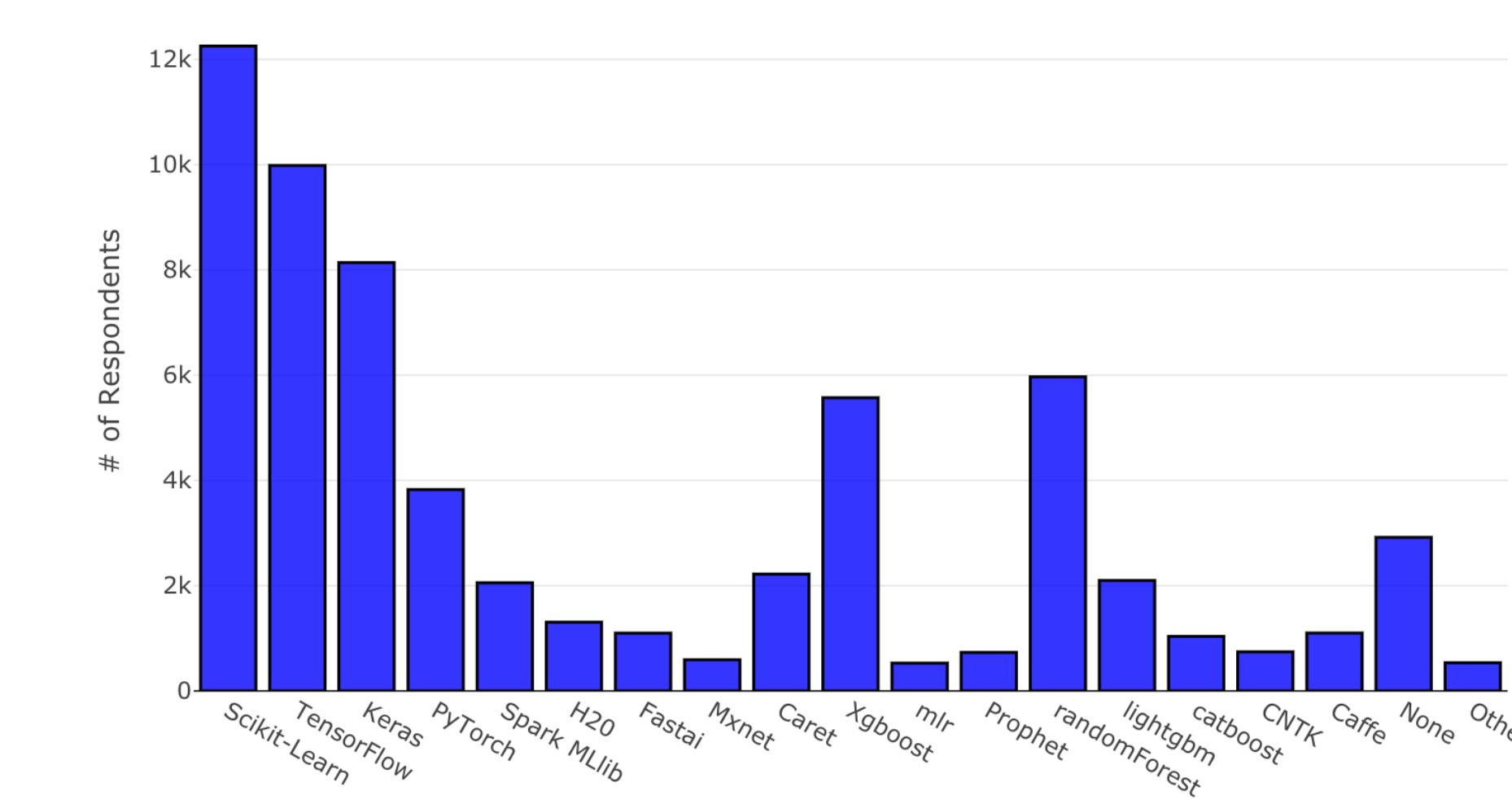


[Export to plot.ly »](#)

of Respondents per IDE

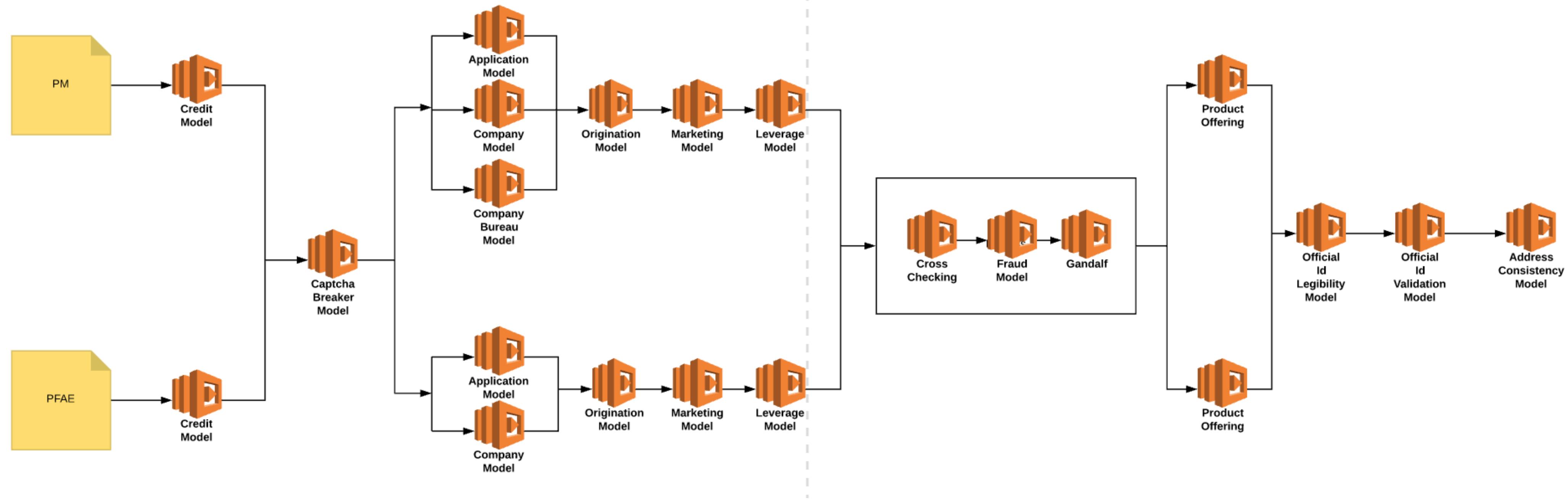


[Export to plot.ly »](#)



■ KONFÍO DS @ JUN19

PM+PFAE



RECURRENT



Fomer Model

TopUp Model

COLLECTION



Behavior Model

Reminder Model



■ DEMO

PMAZZU/ML_WORKSHOP_TEC/ML_WORKSHOP_TEC.ipynb





 konfío.mx



+ 52 55 4161



Av Horacio 1844,