

Transition from Academy to Industry

Into Data Science...



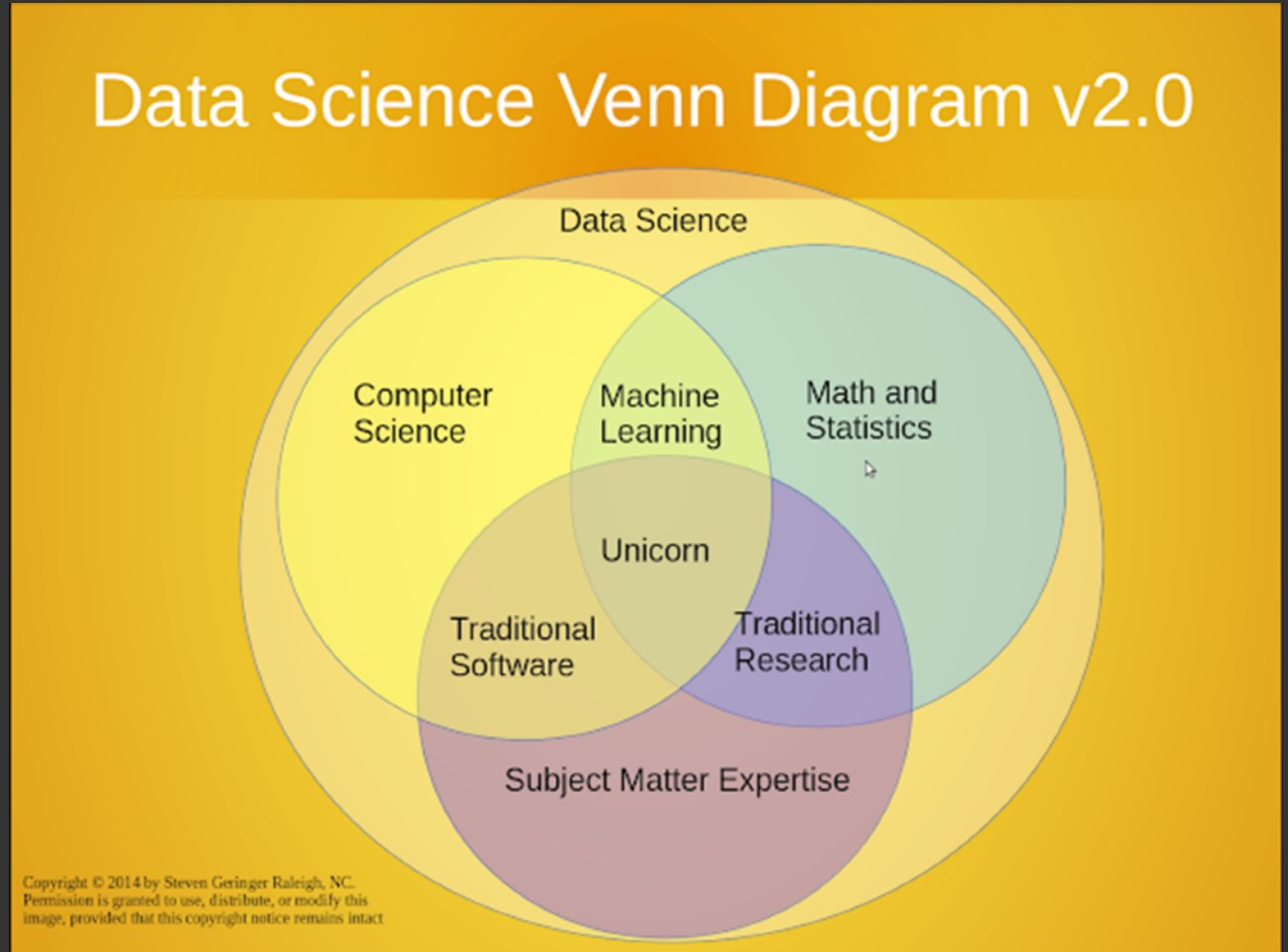
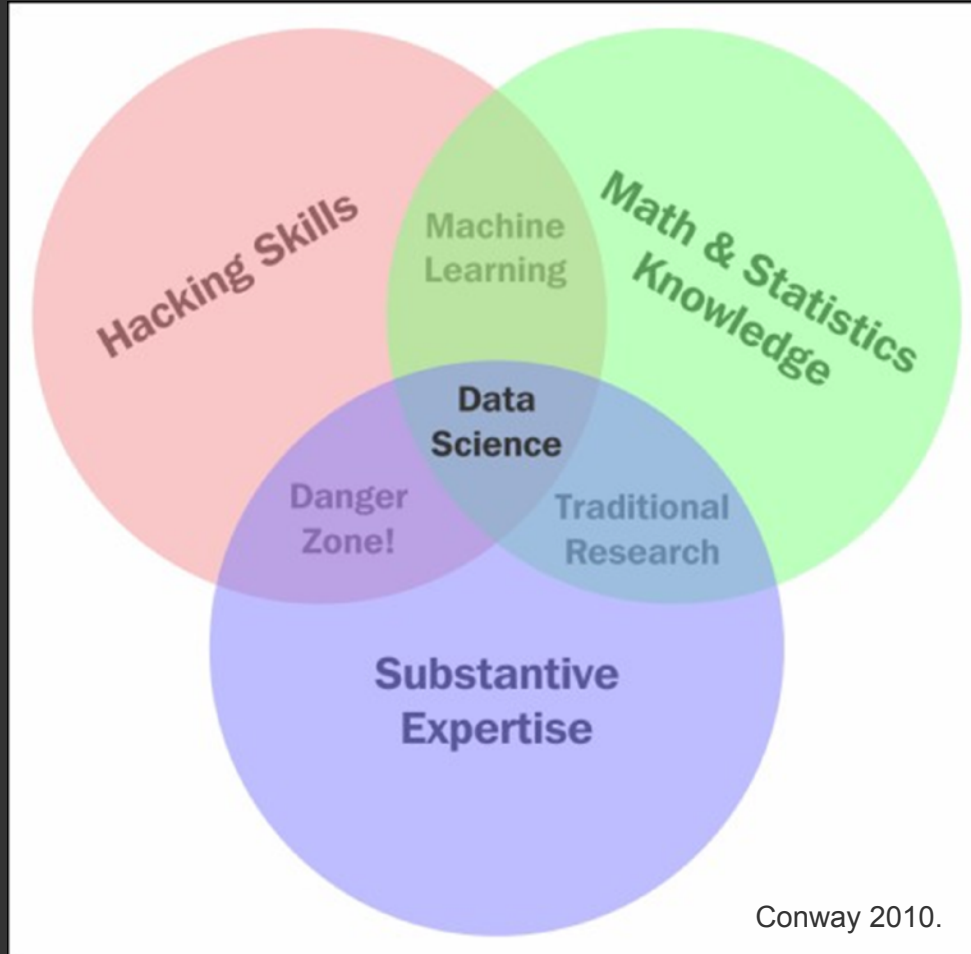
PhD Astrophysics

Postdoc
Computational
Cosmology/HPC

Tech start-up
Industry:
Computer Vision

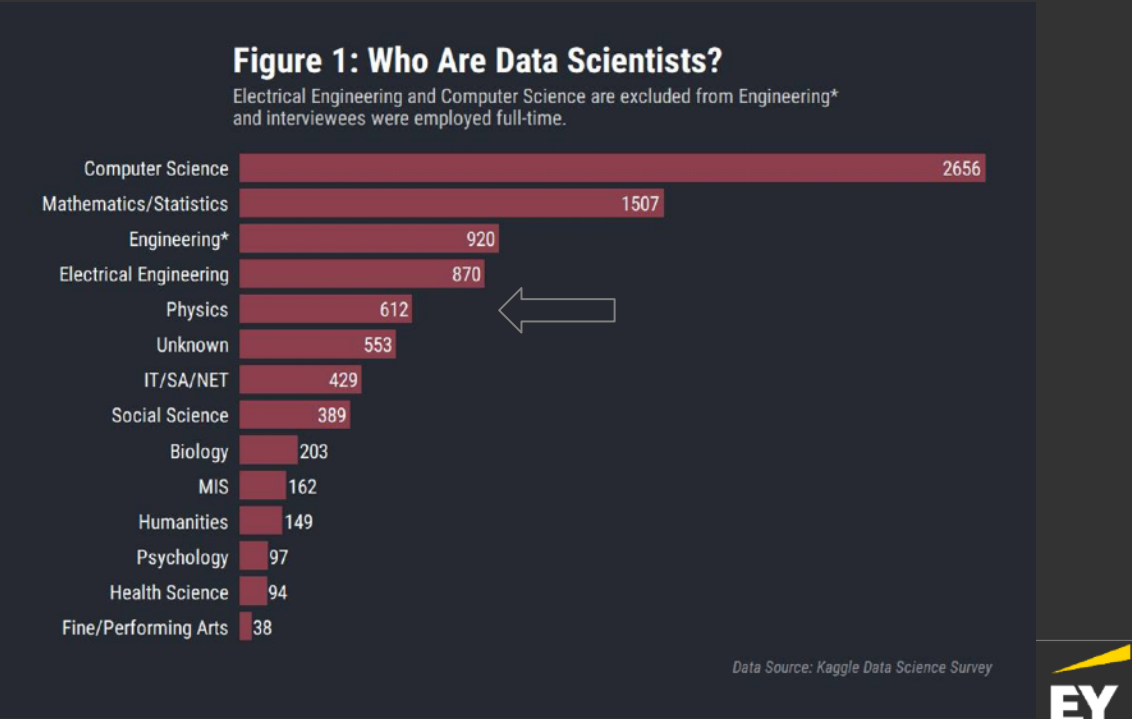
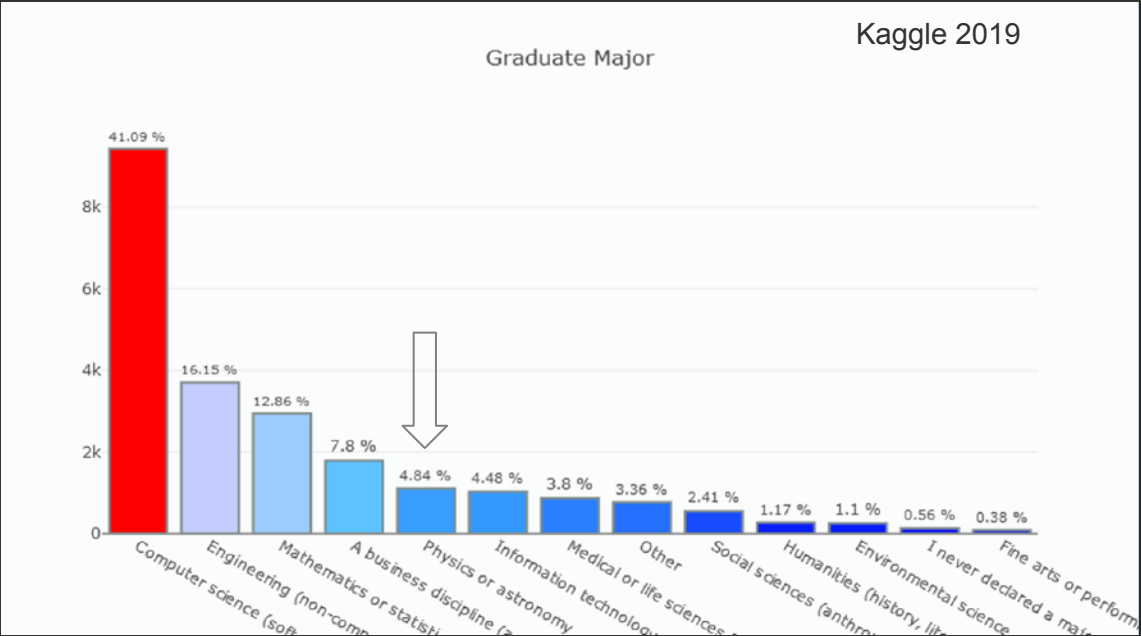
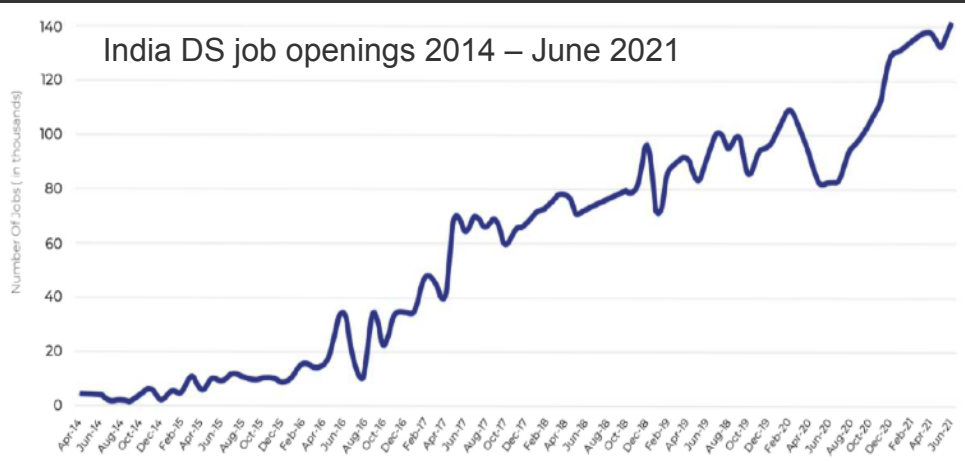
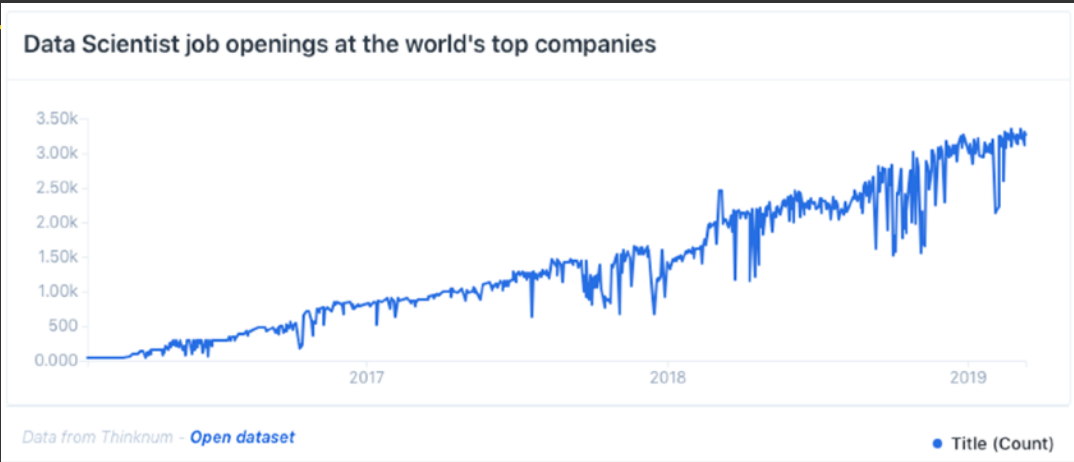
Big 4: EY
Advanced Analytics
HUB

Data Science



Weak point for people from Science: practical knowledge in the specific industry sector and commercial tools

Data Science Facts:



Data Source: Kaggle Data Science Survey



Common Competences - Knowledge Homologation

- **Problem Solving:** Abordar problemas nuevos, no lineales, no temer enfrentarse a problemas desafiantes y tener habilidad de encontrar patrones y sesgos en los datos.
- **Computational Thinking:** Estructurar soluciones y modelos como si fuesen algoritmos. Conocimientos de programación.
- **Maths & Stats:** Conocimiento base en herramientas para generar/validar modelos, calcular y caracterizar variables e indicadores junto a su significancia y sesgos.
- **BigData:** Manipular grandes volúmenes de datos, HPC.

Other recommendations:

- ▶ Cloud: IaaS SaaS – Azure, AWS, GCP
- ▶ Big Data: Spark, DataBricks
- ▶ Agile, Scrum, DevOps
- ▶ ML platforms: TensorFlow, PyTorch, Keras

