I Wonder if you want to be a data scientist

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Data Scientists compared to Data Engineers and Data analysts

Data Engineers

Collaborate & overlap

- Developers (SWE = Software Engineer) and Program Managers (PM) who focus on data systems
- Design & build data infrastructure, platforms, and tools
- Build data driven apps for informed decisions
- Focus: scale & reliability
- Operationalize insights (Algo, ML/AI, etc.)
- Drive for impact

Data Scientists

- · Design measures
- Extract, explore, clean raw data

Collaborate & overlap

- Statistics experts
- ML (broadly speaking)
- Model selection
- Effective consultants
- Great communicators
- Reporting and visualization
- Drive for impact

Data Analysts

- Subject matter experts
- Design measures
- Analyze data from structured data streams
- Sophisticated reporting and visualization
- Effective consultants
- Great communicators
- Drive for impact

Everyone's over-arching goal:

Make an impact with data for
the benefit of their user-base

*This is a rough summary, and may not apply everywhere

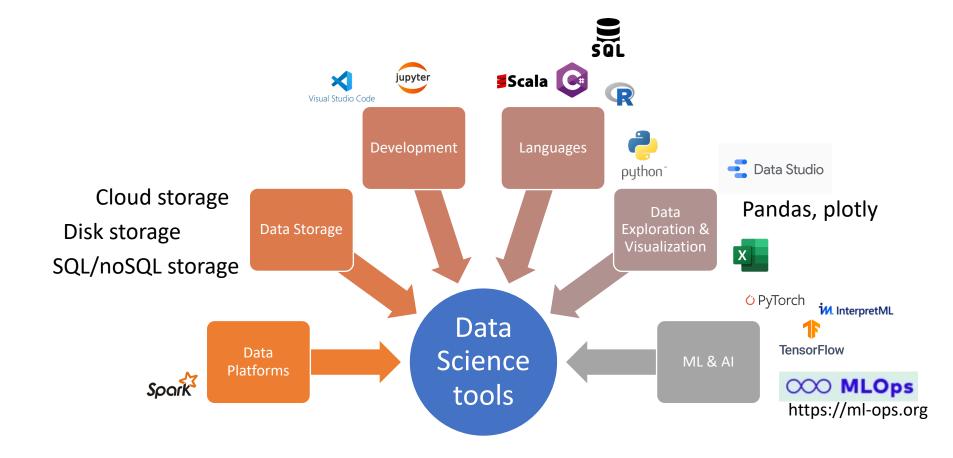
A Successful Data Scientist is "T-Shaped"

Soft Skills: Consulting Skills, Collaboration, Communication, Drive for Impact

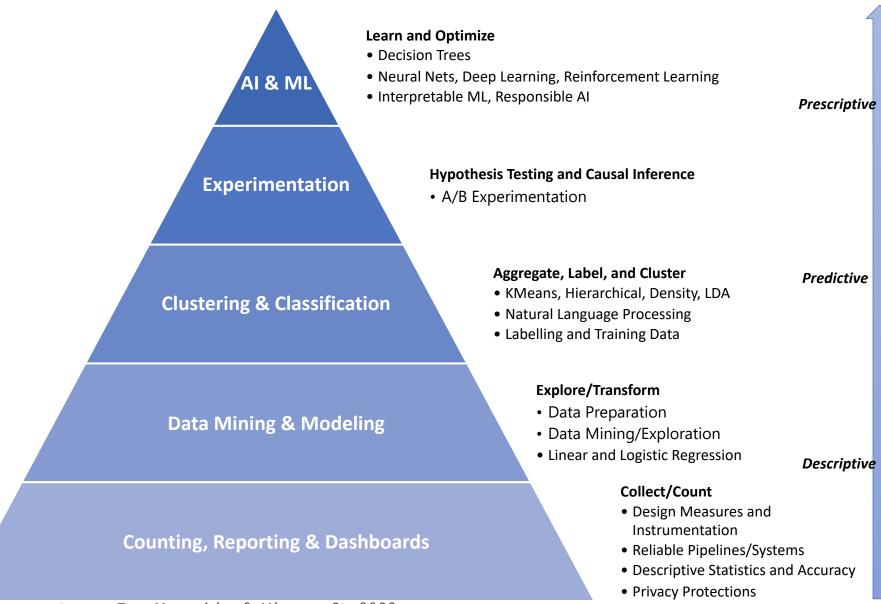
Technical Skills:
Data Prep
Stats
ML
Coding

You need <u>both</u> technical and soft skills to succeed as a DS!

Tools and platforms DS works with...



Data Science Work Up The Data Pyramid – Bottom to Top



Slide courtesy: Tom Mereckis @ Microsoft 2022