

Data Science

(Introductory Session)

Ankit Rathi

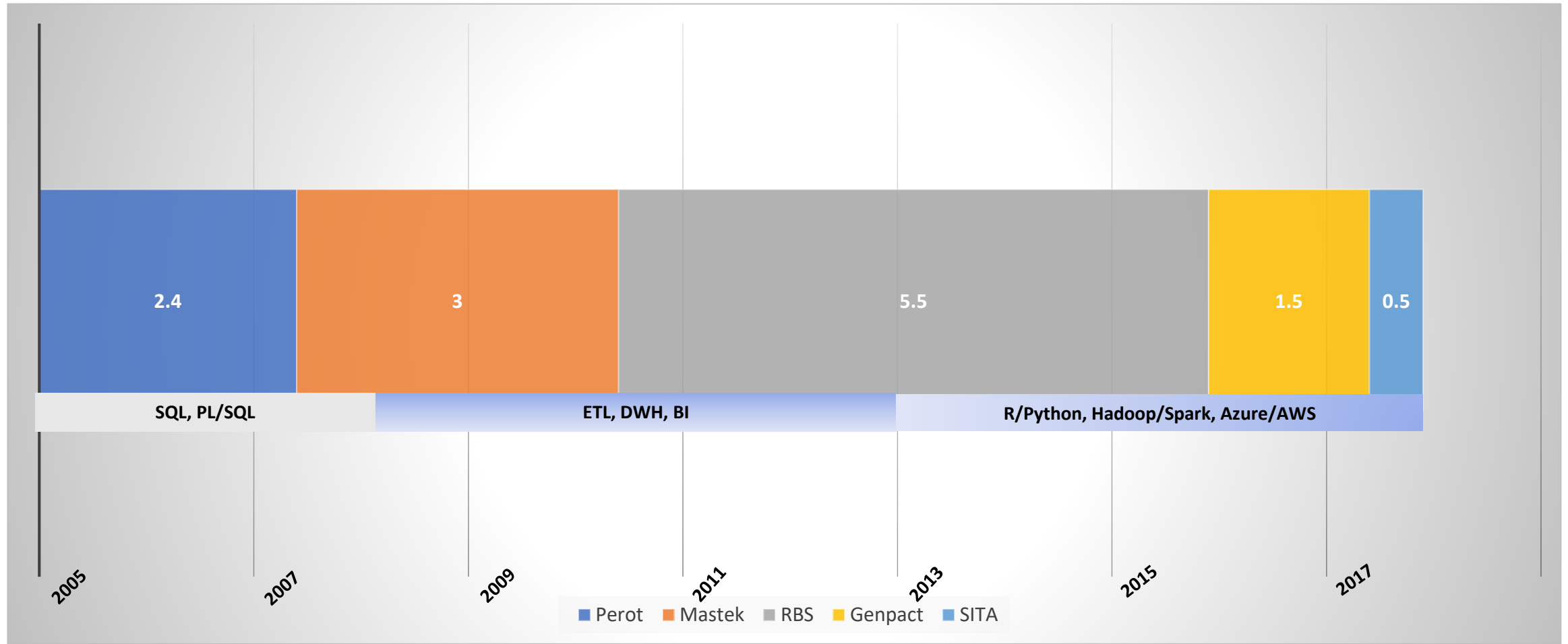
Your motivation?
Expectations?

Setting the expectations

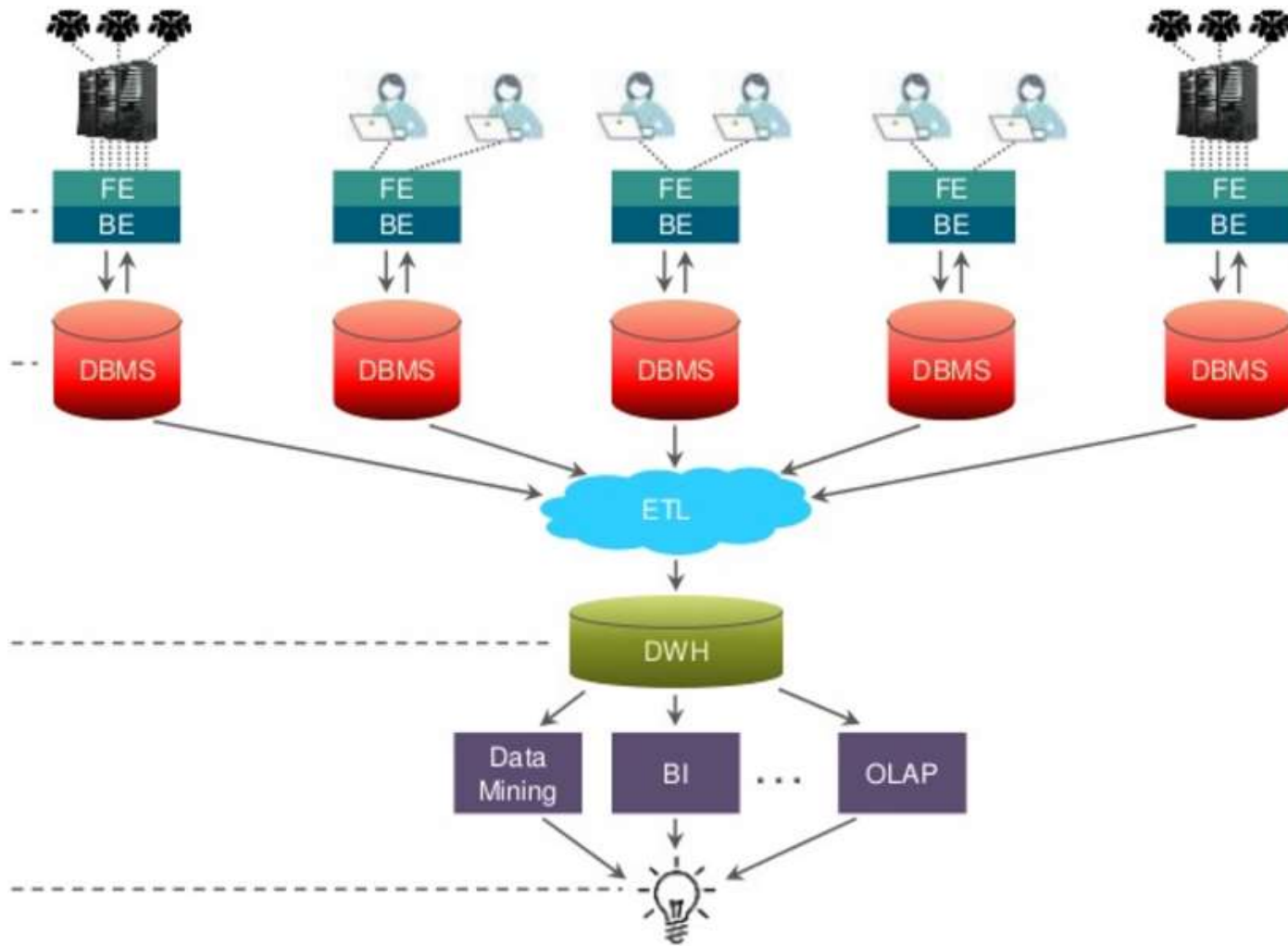
- Expertise Vs Data Science
- Breadth, depth & perspective
- Requires knowledge & skills (practice, practice, practice)
- Scope: Context, overview & approach only

Let me start with a story...

My Journey



Building the context



2012: The turning point...

Data Scientist: The Sexiest Job of the 21st Century

by Thomas H. Davenport and D.J. Patil

FROM THE OCTOBER 2012 ISSUE



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Machine Learning

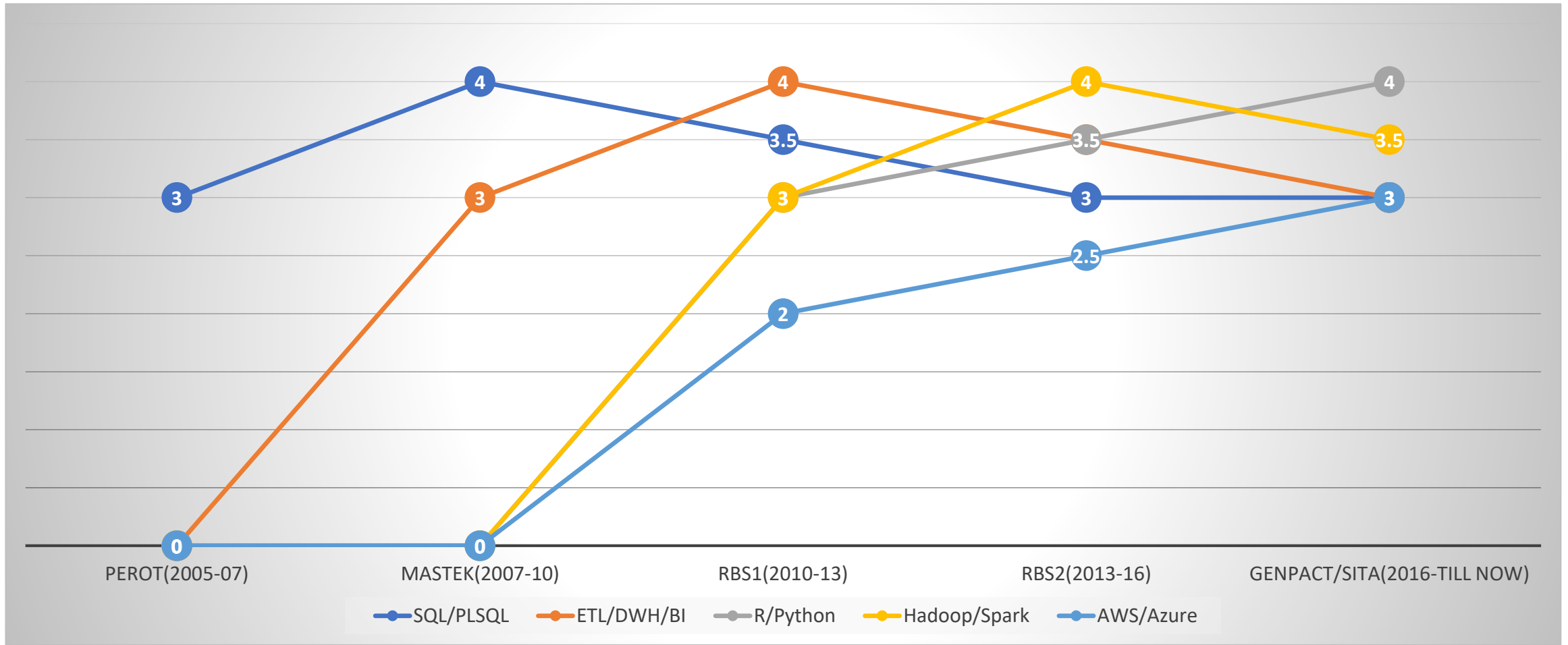
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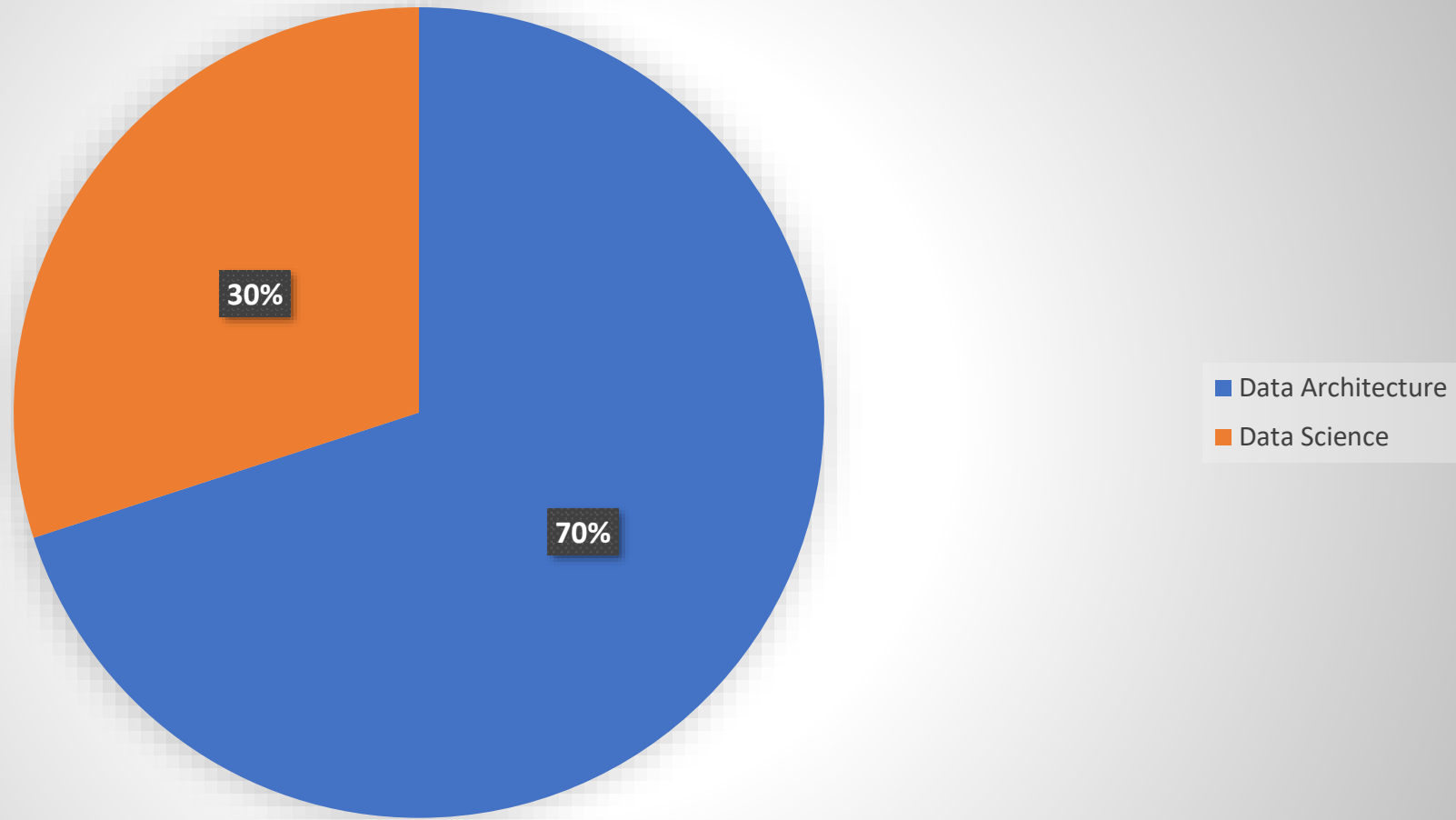
Andrew Ng
American computer scientist



Skill-set Evolution



Current Role



What?

Why?

Data Science

How?

Why Data Science?

Why Data Science?



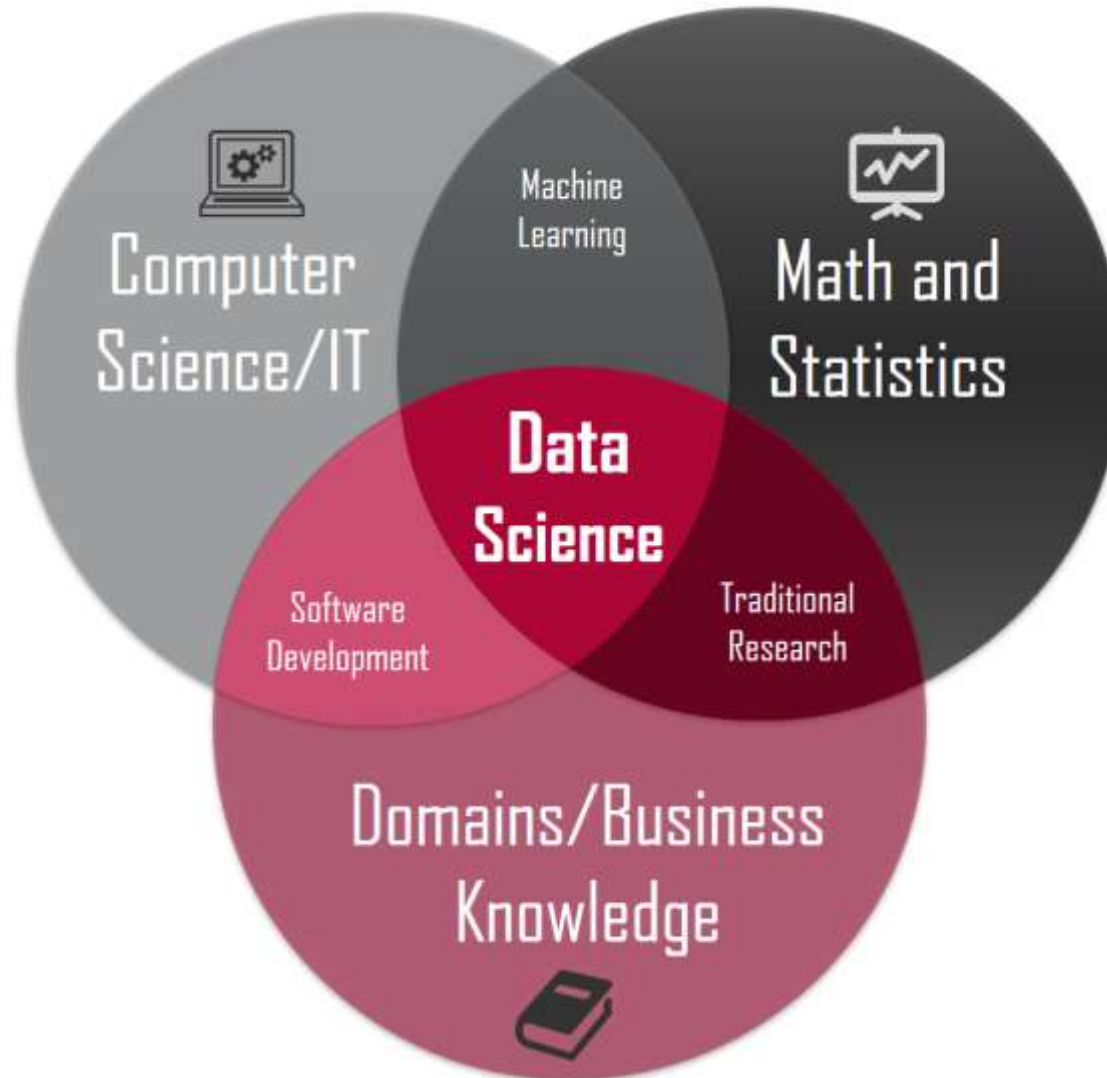
What is Data Science?

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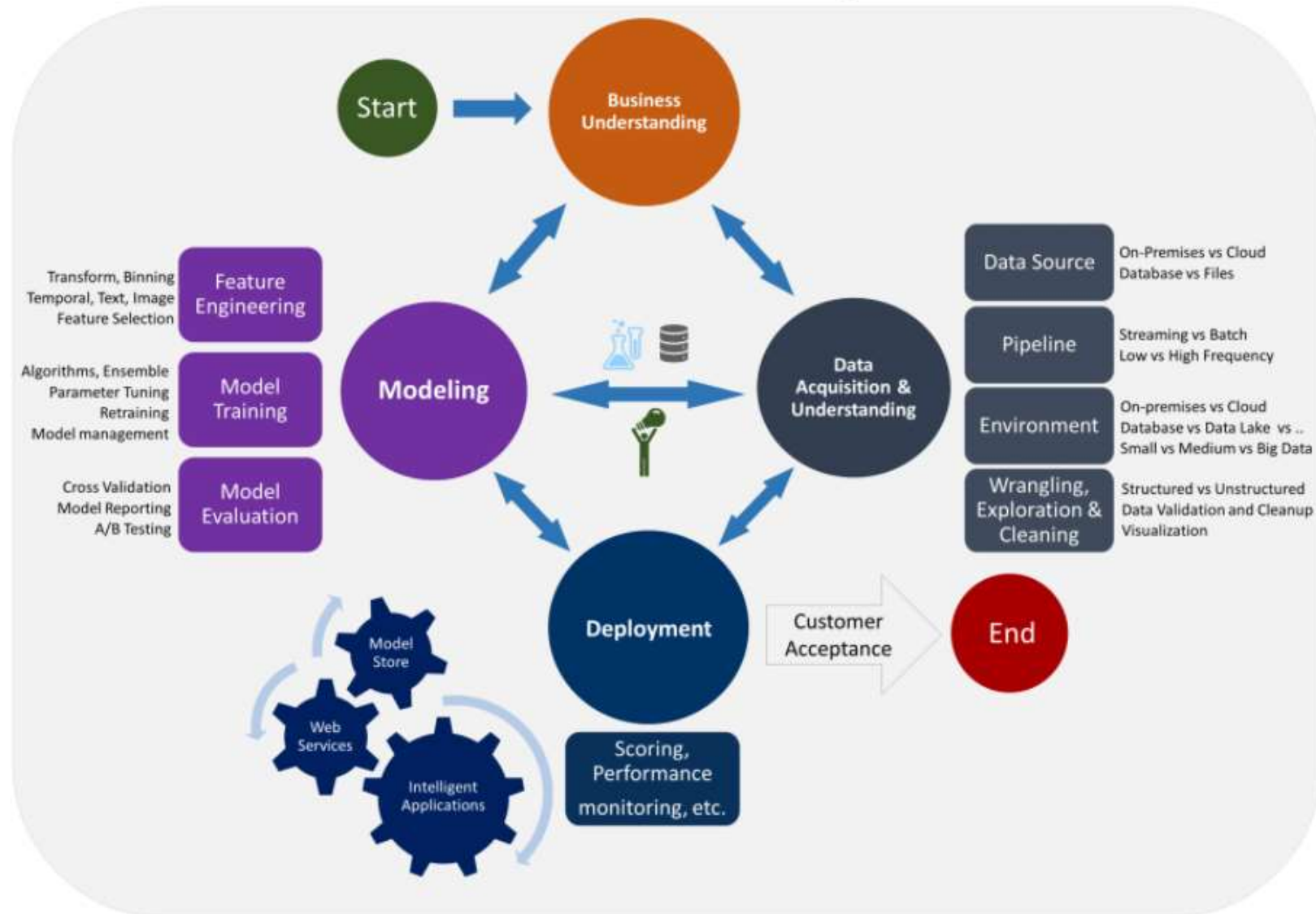
Data science is an interdisciplinary field of scientific methods, processes, algorithms and systems to extract knowledge or insights from data in various forms, either structured or unstructured, similar to data mining.

~ Wikipedia

What is Data Science?



How to do Data Science?



Skill-set of a Data Scientist

- Data Literacy
- Linear Algebra, Statistics & Probability
- Algorithms
- Programming (SQL/R/Python, KNIME/SPSS)
- Domain Knowledge
- Story-telling

Challenges

- Stakeholders Buy-in
- Data Issues (Access, Quality)
- Problem Statement
- Maturity (Process, Analytics)
- Wrong Expectations

Learning Approach

- **Kaggle** (learn, apply, compete)
- **Analytics Vidhya** (learn, stay updated, compete)
- **KDNuggets** (learn, stay updated)
- **Machine Learning Mastery** (learn, apply)
- **Data Science Central** (learn, stay updated)
- **Quora, Medium & StackOverflow** (ask, learn, stay updated)

"If you want to learn to swim, jump into the water."

~ Bruce Lee

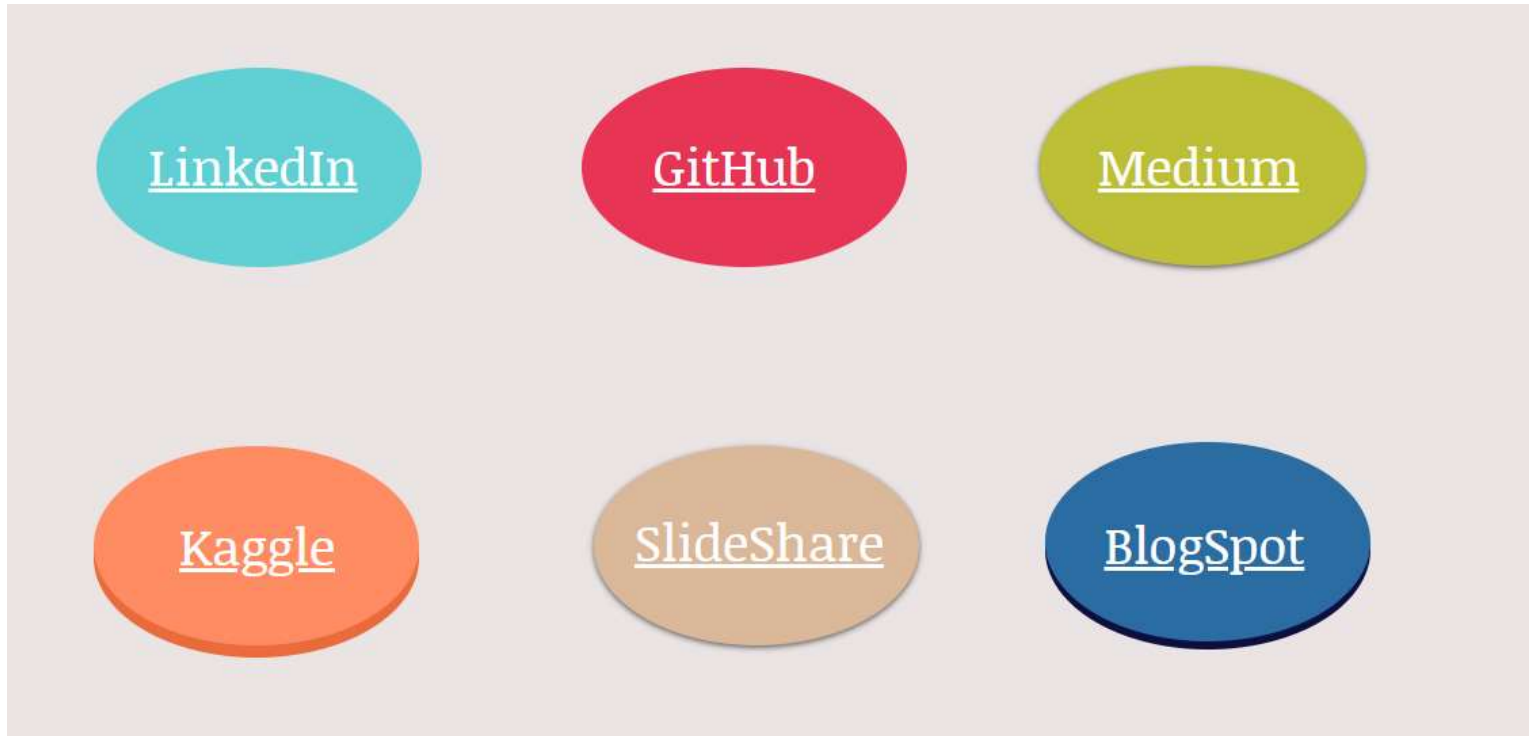
"The secret of getting ahead is getting started."

~ Mark Twain

Demo

Connect with me

<https://ankitrathi.wixsite.com/home/links>



Questions?