

Kaggle Vs Real World Projects @ Kaggle Days



AGENDA

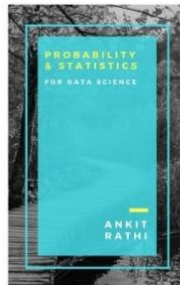


- **About Me**
- **Context Building**
- **Hackathons**
- **Real-World Projects**
- **Head to Head**
- **General Differences**
- **Q&A**



About Me





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More...



SITA



HBTI, Kanpur

Ankit Rath

Lead Architect - DS/AI | Author | Speaker | All views personal

Gautam Buddha Nagar, Uttar Pradesh, India · 500+ connections

Contact info

Articles & activity

30,123 followers

Manage followers



How to launch your DS/AI career in 12 weeks?



Ankit Rath

Published on LinkedIn

From a time around when DS/AI field started picking up, every other day I get at least 8-10 messages from DS/AI starters & enthusiasts on 'How can I get into DS/AI field?'. Over th ...see more

70 Likes · 4 Comments



Like



Comment



Share

See all articles



Crossed 30K followers few days back, thanks for all the encouragement &...

Ankit shared this

62 Reactions · 4 Comments



Great Tirthajyoti, looks interesting, will try it shortly.

Ankit commented



It doesn't detail out the each and every algorithm, but covers the journey of ...

Ankit replied to a comment

See all activity

Experience



Lead Architect

SITA

Dec 2017 – Present · 1 yr 9 mos



Principal Consultant

Genpact Headstrong Capital Markets

Jun 2016 – Dec 2017 · 1 yr 7 mos

Noida Area, India



Tech Lead

Royal Bank of Scotland

Nov 2010 – Jun 2016 · 5 yrs 8 mos

New Delhi Area, India

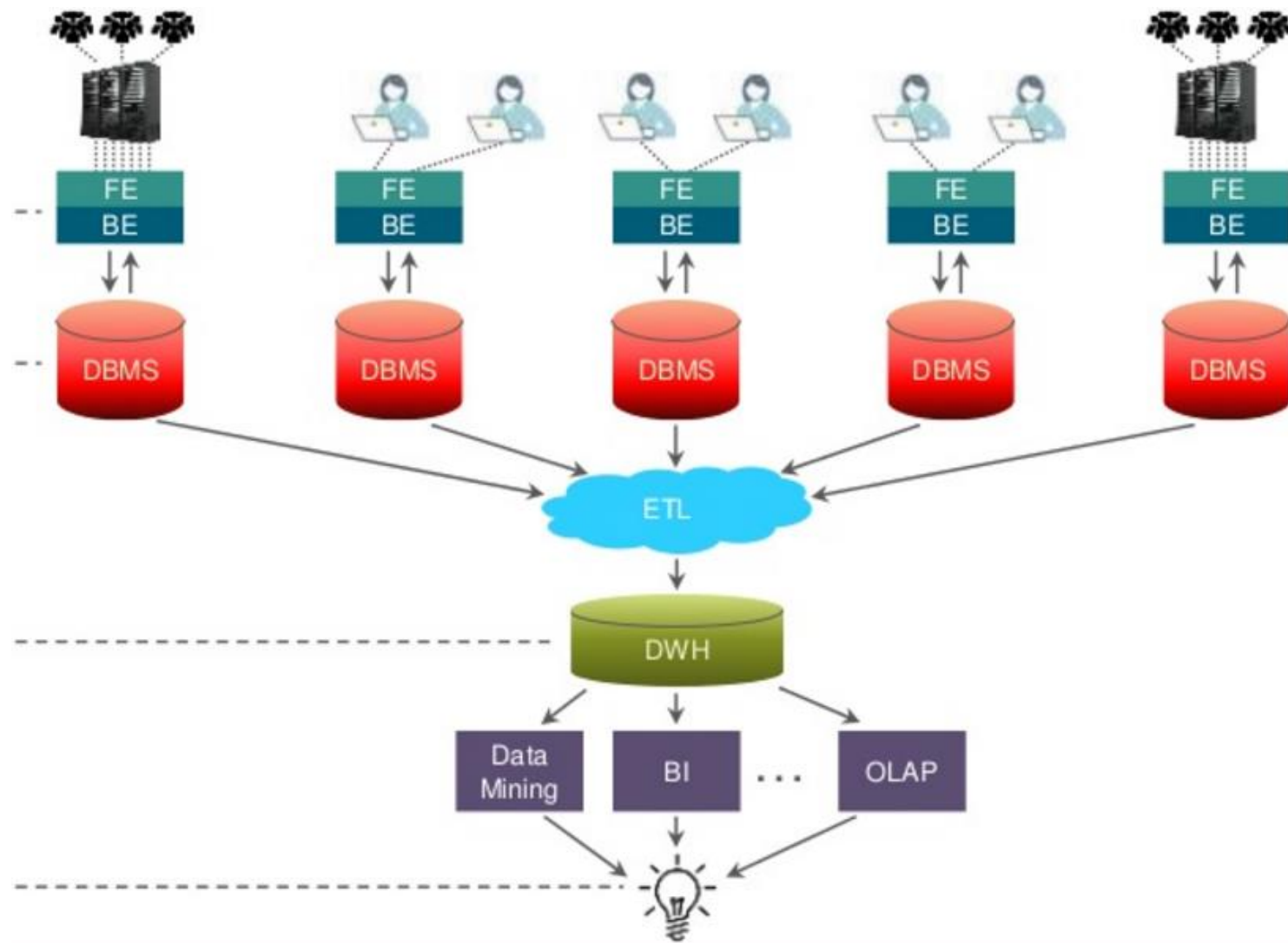


- **14+ years in Data & Analytics**
- **Currently working in SITA**
- **Worked on DBs/ETL/DWH/BI**
- **Transitioned into DS/AI in 2014**
- **Infusing intelligence in products**
- **Blogger, Author & Speaker**



Let me start with a story...





Data Scientist: The Sexiest Job of the 21st Century

by **Thomas H. Davenport** and **D.J. Patil**

FROM THE OCTOBER 2012 ISSUE



Home > Data Science > Machine Learning

Machine Learning

Created by:



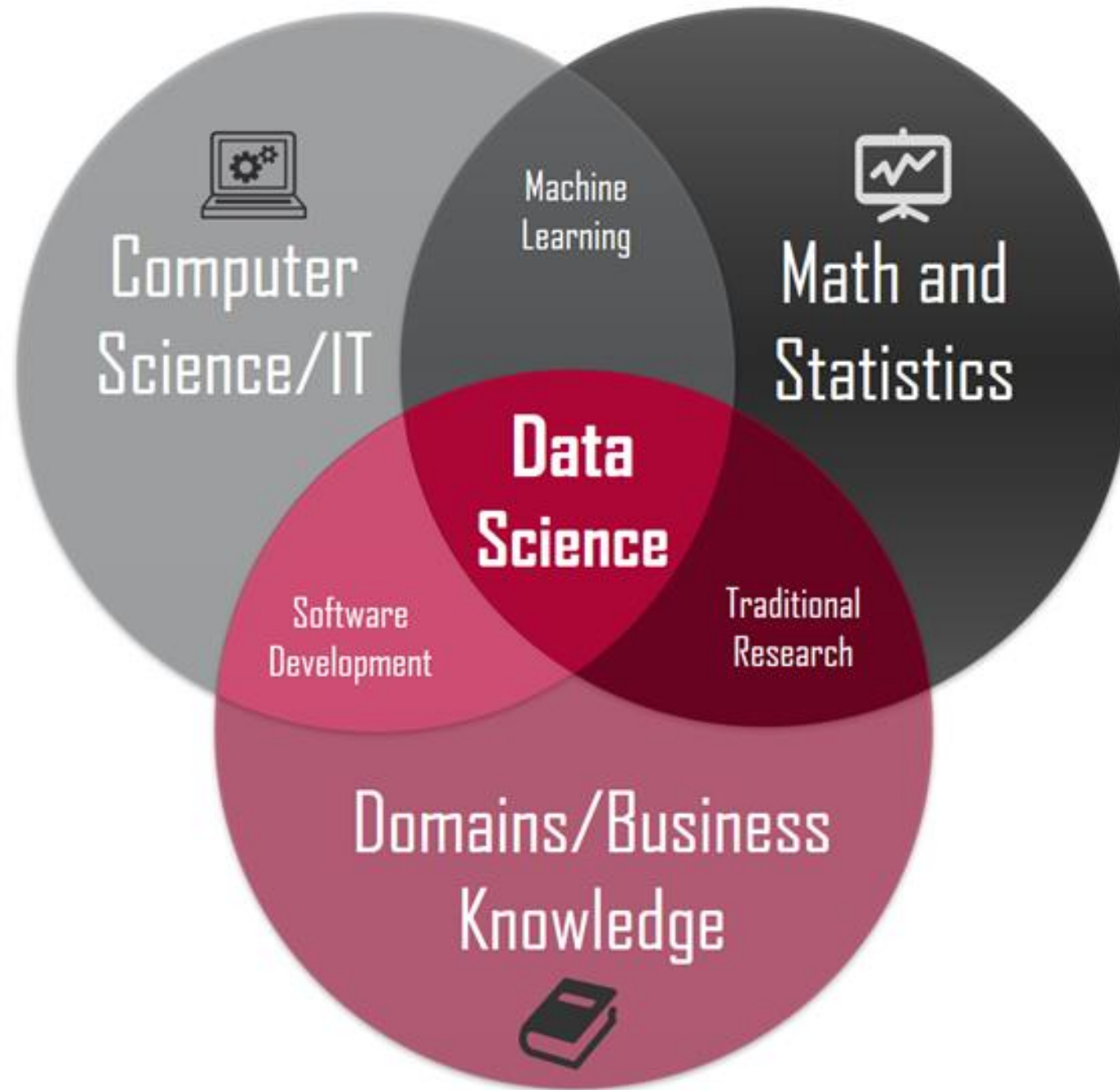
Andrew Ng
American computer scientist

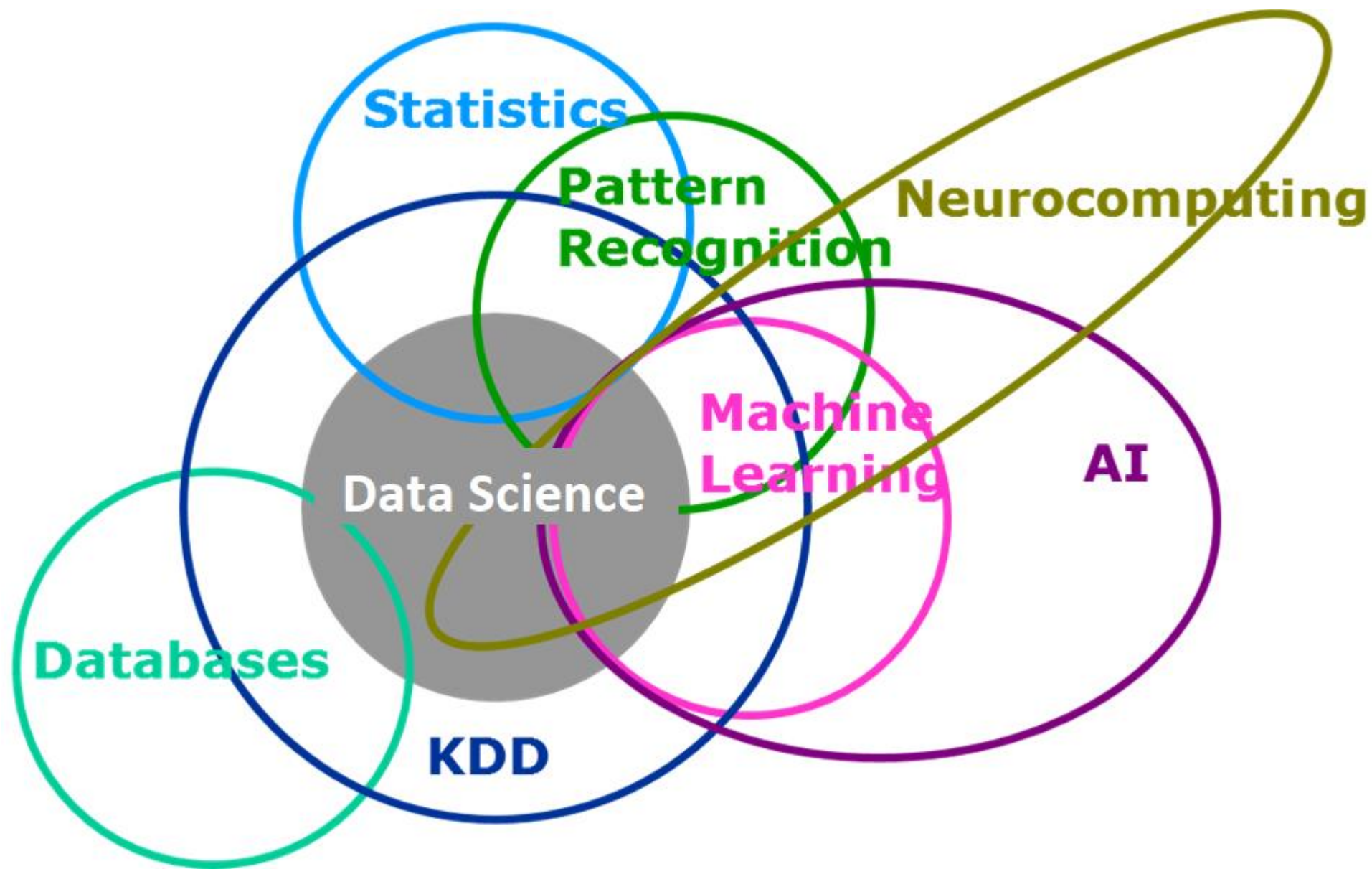


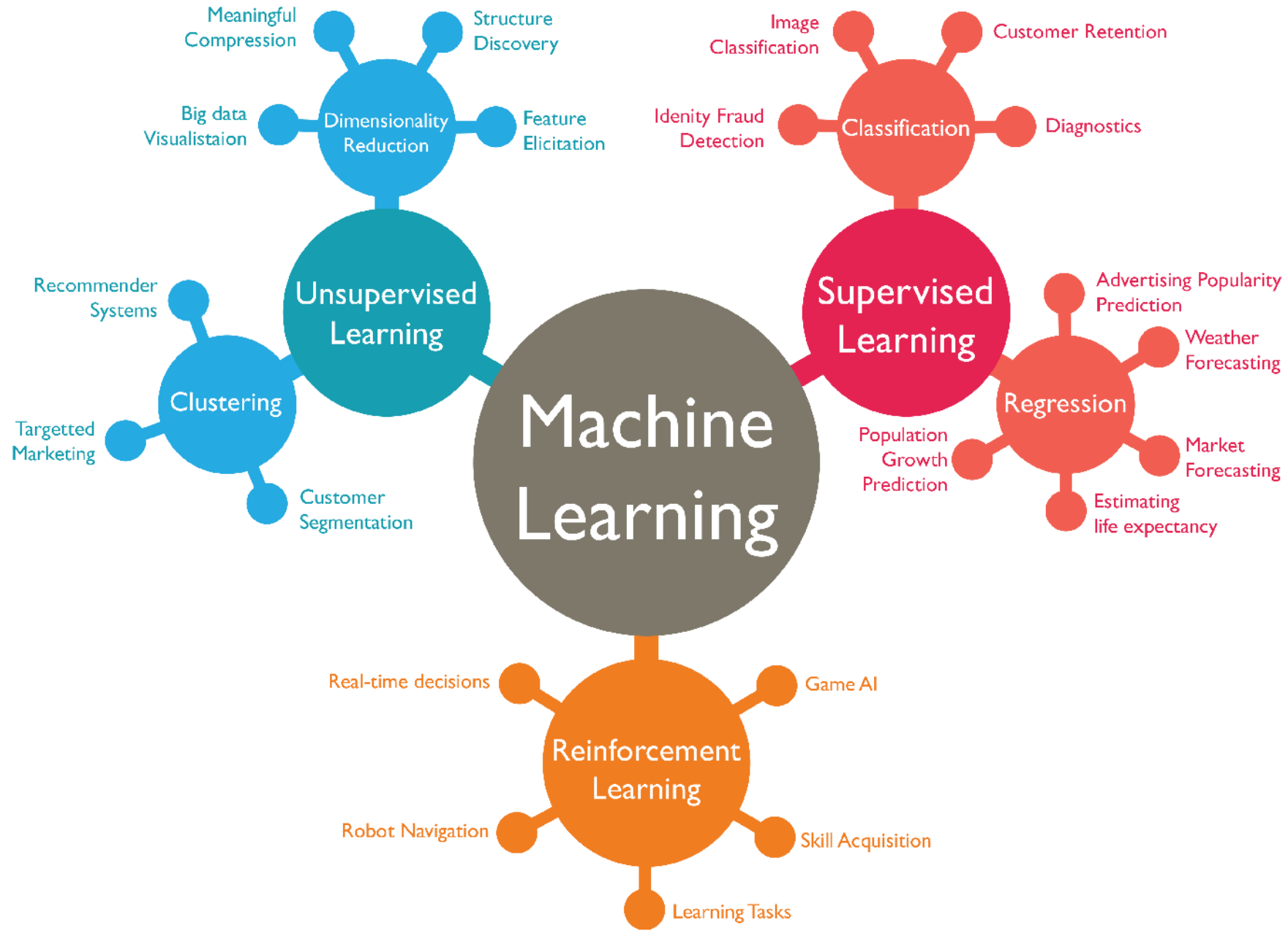
Context Building





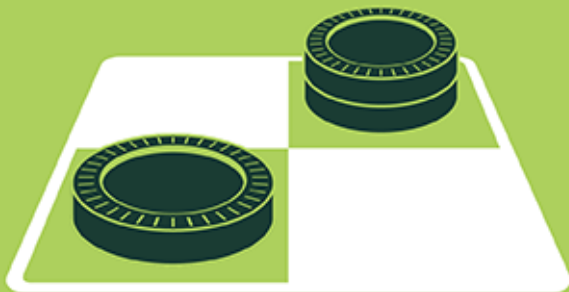






ARTIFICIAL INTELLIGENCE

Early artificial intelligence stirs excitement.



MACHINE LEARNING

Machine learning begins to flourish.



DEEP LEARNING

Deep learning breakthroughs drive AI boom.



1950's

1960's

1970's

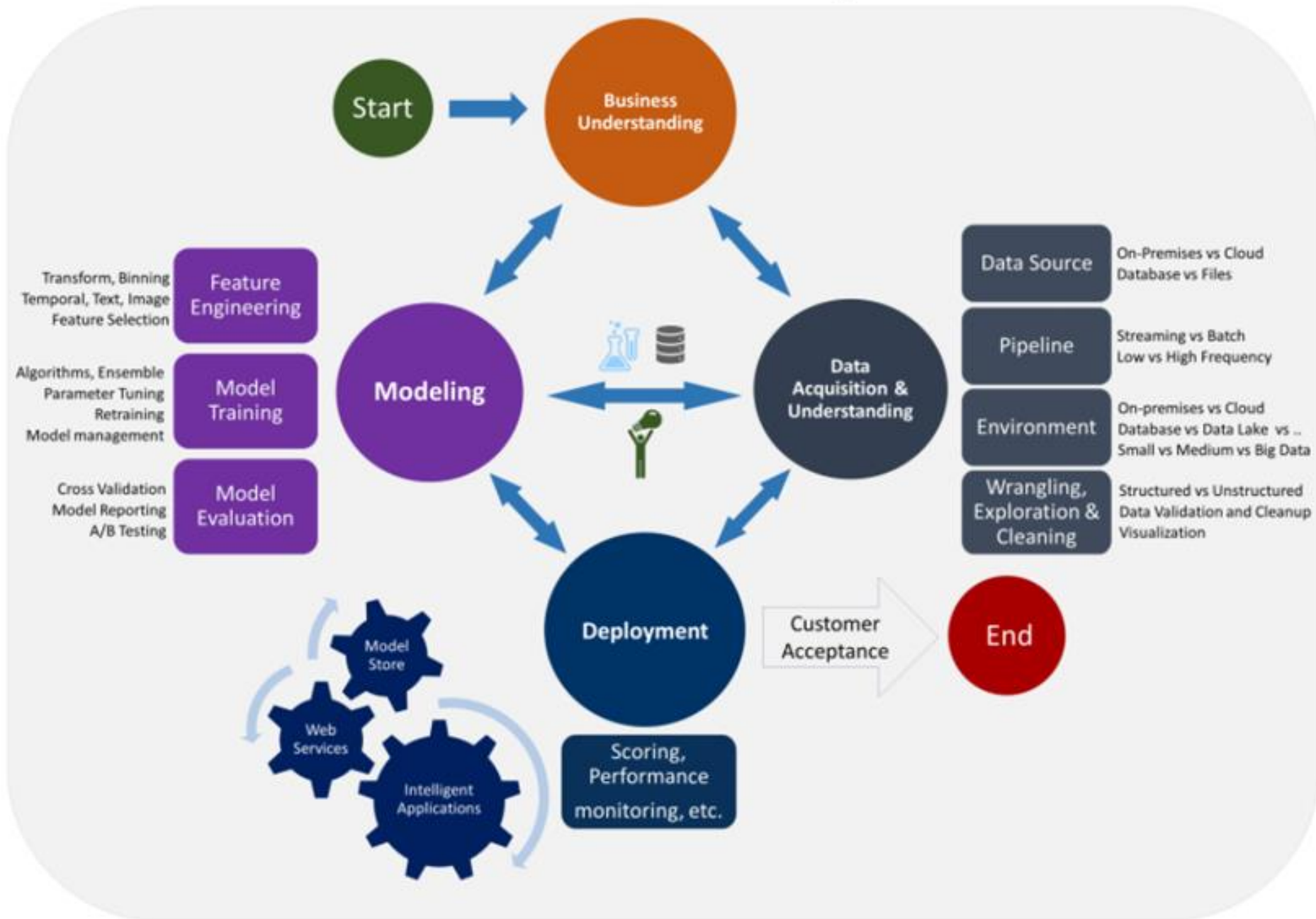
1980's

1990's

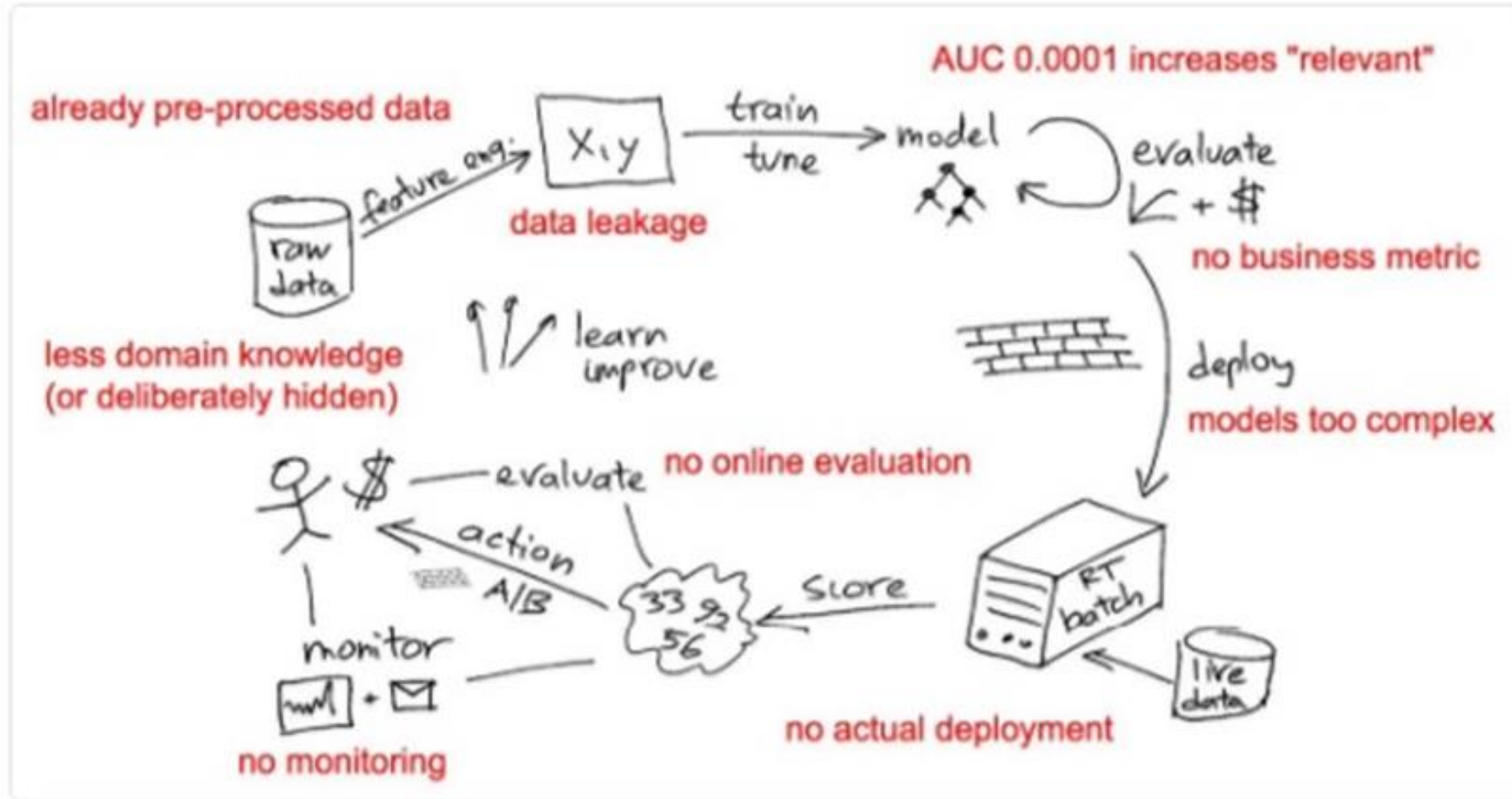
2000's

2010's





If you do [#kaggle](#) to learn [#machinelearning](#), you are missing on 80% of things you need for ML in real life/production



Hackathons



- **Get the Overview**
 - **Description, Evaluation, Timeline, Specific Req.**
- **Explore the data**
- **Explore other kernels**
- **Build a baseline**
- **Keep improvising till deadline**



Real World Projects



- **Identify & evaluate the Opportunity**
- **Develop Business Understanding**
- **Fetch, qualify & analyze available data**
- **Build a Prototype/POC**
- **Follow CRISP-DM methodology**
- **Deploy, Host & Monitor**



Head to Head Comparison



Problem Statement

- **Kaggle: Problem Statement is well defined**
- **Project: Need to identify & formulate Problem Statement**



Data Availability

- **Kaggle: Data-sets are available**
- **Project: Need to identify & fetch relevant data**



Evaluation Sets

- **Kaggle: Train-Test-Real data are already segregated**
- **Project: Need to segregate Train-Test-Real data**



Additional Data

- **Kaggle: You may or may not use additional data**
- **Project: You can always identify & use relevant additional data**



Evaluation Criteria

- **Kaggle: Evaluation criteria is available**
- **Project: You need to define evaluation criteria**



Deployment

- **Kaggle:** You need to submit the results in specific format
- **Project:** You need to deploy & host the model for business



Timelines

- **Kaggle: You get a deadline to submit**
- **Project: You can carry on as long as project funds permit**



General Differences



Model Performance

- **Kaggle: You have the leaderboard to know where you are**
- **Project: You are the best as long as you are not challenged**



Expectations

- **Kaggle: Expectation is move higher the leaderboard**
- **Project: You can manage expectations of the stakeholders**



Business Value

- **Kaggle: You can use all the resources you can**
- **Project: You take decisions in terms of business value**



Time to Market

- **Kaggle: Competition timeline is important**
- **Project: Time to market is an important aspect**



Collaboration

- **Kaggle: You can collaborate with other competitors to form a team**
- **Project: You need T-shaped professionals to deliver**



Model Complexity

- **Kaggle: Models can be as complex as they can**
- **Project: Practical deployment aspects are considered while increasing the complexity**



Concluding Thoughts



Q&A





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