Sculpting Data for Machine Learning

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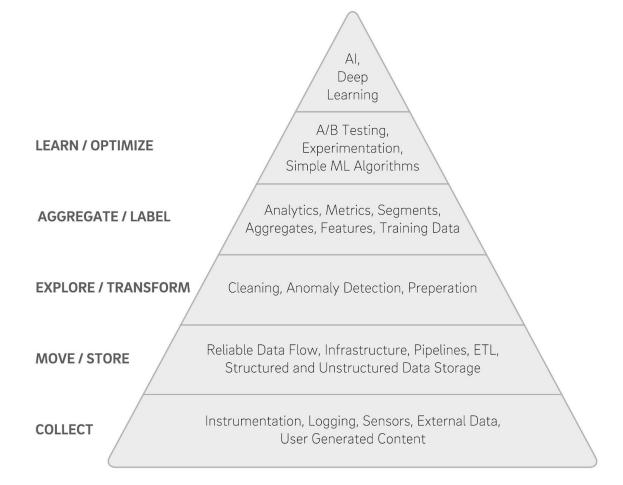
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Machine Learning is the future? duh. Is it magic?



AI Hierarchy of Needs.

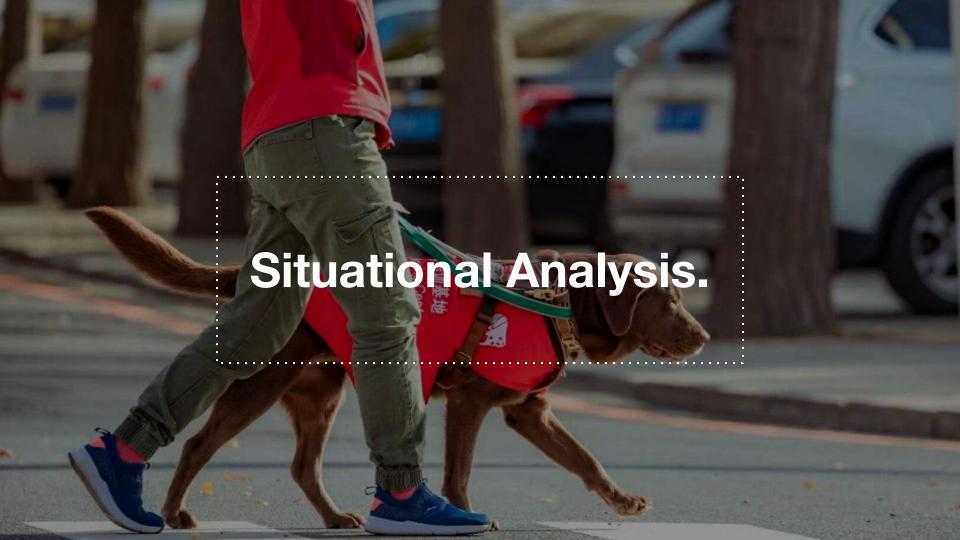






- Peter Norvig

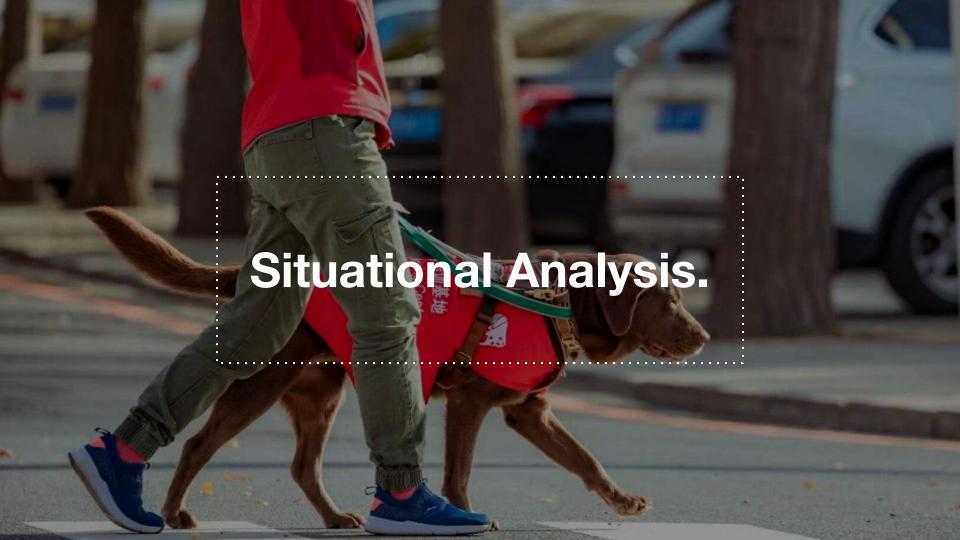




















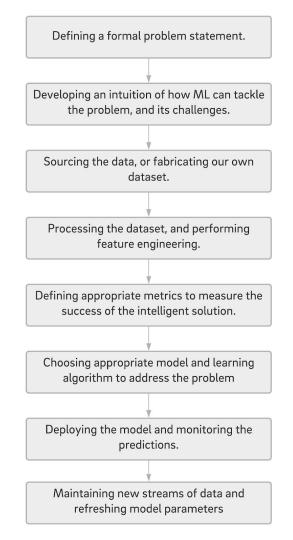


- Interesting Problem Recognition
 - Data signal(s) worth estimating?
 - Lead to fascinating results?
- Metadata Association
- Data Volume Requirement
- Data Uniqueness Check

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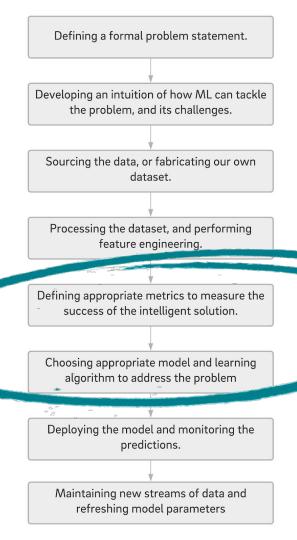


Workflow.

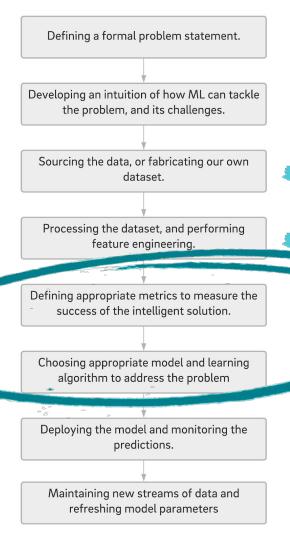




Workflow.



Workflow.





Would love your feedback on this: AI Systems = Code (model/algorithm) + Data. Most academic benchmarks/competitions hold the Data fixed, and let teams work on the Code. Thinking of organizing something where we hold the Code fixed, and ask teams to work on the Data. (1/2)

1:12 PM · May 24, 2021 · Twitter Web App **402** Retweets 91 Quote Tweets 3,498 Likes 17 Tweet your reply Andrew Ng @ @AndrewYNg · May 24 Replying to @AndrewYNg Hoping this will more closely reflect ML application practice, and also spur innovative research on data-centric AI development. What do you think? (2/2) 102 ↑7, 49

SCULPTING DATA FOR ML amzn.com/B08RN47C5T Jigyasa Grover & Rishabh Misra

SCULPTING DATA FOR ML

The first act of Machine Learning

SCULPTING DATA FOR ML

Jigyosa Grover & Eishabh Misra

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WHAT'S INSIDE?

- Significance of data in Machine Learning
- Identification of relevant data signals
- End-to-end process of data collection and dataset construction
- Overview of extraction tools like BeautifulSoup and Selenium
- Step-by-step guide with Python code examples of real datasets
- Synopsis of Data Preprocessing and Feature Engineering
- Introduction to Machine Learning paradigms from a data perspective

Endorsed by leading ML experts. Read forewords by:

Julian McAuley
Associate Professor at UC San Diego

Laurence Moroney
Lead Artificial Intelligence Advocate at Google

Mengting Wan
Senior Applied Scientist at Microsoft

