

Hiring with Managers:

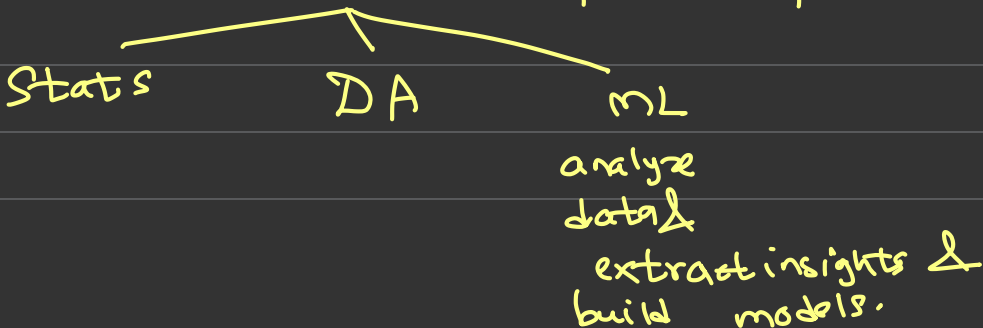
29/05/2022

- Numpy
 - Pandas
 - EDA
 - Inferential Stats
 - Hypothesis Testing
-

- Introduced to DS
 - Various Types of Data Analysis
 - Various Career path in Analytics - ML/DL/NLP
 - Skills for Data Scientist
 - Interview concepts & problem solving
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Data Science

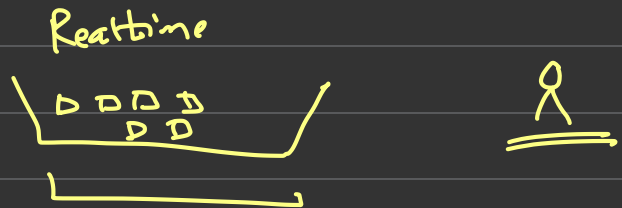
Comb of Multiple disciplines



Predictive Analytics! What will happen next?

Pattern discoveries: find patterns/hidden info.

Freight Mgmt: Maersk · discover best routes ship.



Data Scientist:

McDonalds: Revenue decrease by 25% this quarter.

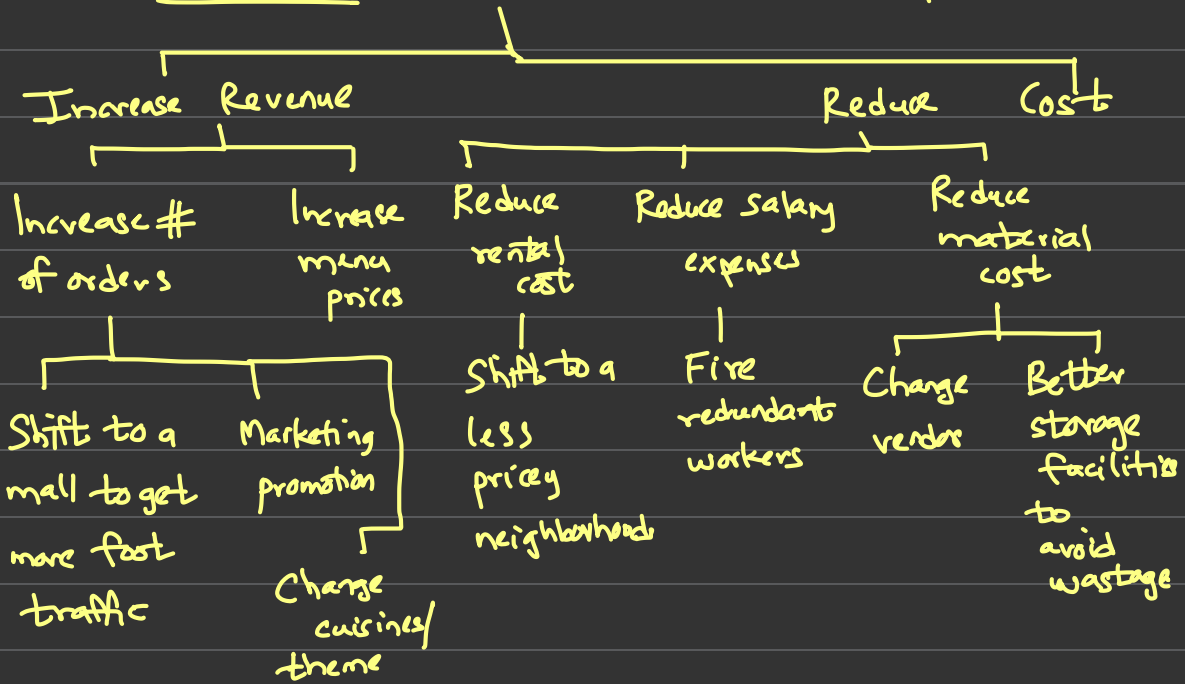
MECE: Mutually Exclusive - Collectively Exhaustive

- List down prob. stmt w/o ambiguity.
- Options - Tree like fashion

Options must not overlap (Mutually exclusive)

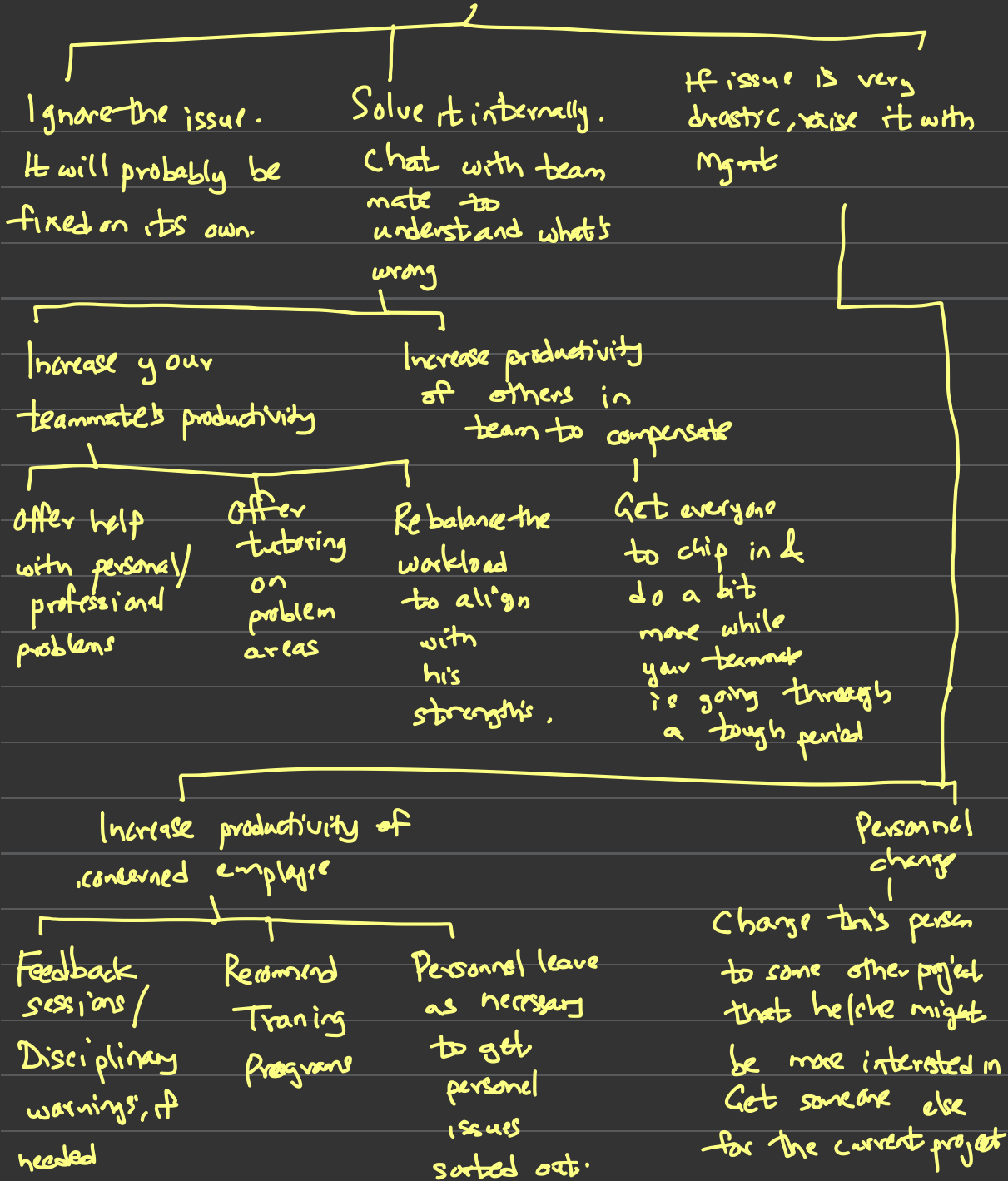
& No option is missed out (Collectively exhaustive)

Pb. Stmt: My restaurant is not profitable



Prob. Situation: One of your team members is not delivering their work on time & you are worried that as a result the project will not be completed before deadline.





Python / R

Stats

Mathematics

DB — SQL

Various Types of Data Analysis:

1. Descriptive Analysis: looking into raw data & creating data summaries to inform abt business performance.
2. Diagnostocs Analytics: involves investigating root cause behind any change in key business metrics.
3. Inferential Analysis: covers analyzing a sample to mk predictions around population
eg: p , Confidence Intervals, CLT, Type I & II errors.
US Census Bureau: $p > 0.10$

P: - statistical measurement.

- used to validate a hypothesis against observed data.
- lower p , greater statistical significance of observed difference.
- $p < 0.05$ is generally considered statistically significant.

4. Predictive Analytics: we mk predictions abt future using past data.

5. Prescriptive Analytics: Recommendation engines
- rec. to customers.

Data Wrangling

- ① Aggregations
- ② Filtering
- ③ Rolling averages
- ④ Ranking (SQL)

Various Companies:

Facebook:

2-3 question on tech screen
+
1 coding round

Uber:

1 coding screening round (through a
3rd party website) eg: Hacker rank.
+
1 full loop round

Airbnb:

1 coding round

+

1 live coding case study full loop

Twitter:

Take-home assignment

+

1 coding screening round

+

1 full loop round.

EDA:

1. How do you detect Outliers in your data?
2. How do you replace missing values in a dataset?