

Data is not flat

Working with the data is an art

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Structure

Introduction

Examples

Conclusion

Questions?

What do I need and how can I achieve it?

- ▶ From an idea to a MVP
- ▶ Steps required
- ▶ Things to consider beforehand



From the idea to a MVP

- ▶ Is it my core product?
 - ▶ Not that many...
- ▶ Is it an important feature?
 - ▶ Market advantage
 - ▶ Cost advantage
 - ▶ Hype advantage
- ▶ Is it a neat feature?
 - ▶ Is that feature so important?

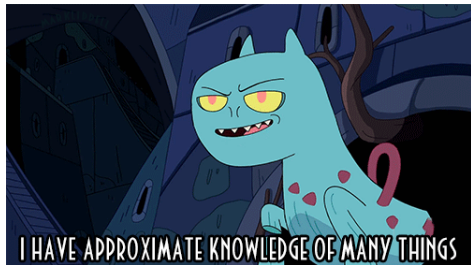


Steps required

- ▶ Data (Legal issues, Cost, Data Mining, Big Data)
- ▶ Infrastructure (Data Engineers, Storage, DevOps, Big Data, Cost)
- ▶ Data Magic (Data Scientists, Statistics, Machine Learning, Deep Learning, Cost)
- ▶ Insights incorporation

Things to consider beforehand

- ▶ Fuzzy tasks
- ▶ Fuzzy QA
- ▶ Fuzzy results
- ▶ Cooooooooost
- ▶ Data quality



Classification problem

Is it a classification or a forecast problem?

http://localhost:8888/notebooks/classification_example.ipynb

Forecast problem

Not the best model to use, but as an example

http://localhost:8888/notebooks/regression_case.ipynb#

Is the problem solved?

- ▶ What is feature engineering, again?
- ▶ Does it work?
- ▶ When to consider it

Thank you for attention!



Some useful information

- ▶ "Applied Predictive Modeling" Max Kuhn, Kjell Johson
- ▶ [https://machinelearningmastery.com/
discover-feature-engineering-how-to-engineer-features-and-how-to-get-g](https://machinelearningmastery.com/discover-feature-engineering-how-to-engineer-features-and-how-to-get-g)
- ▶ <https://homes.cs.washington.edu/~pedrod/papers/cacm12.pdf>
- ▶ <https://elitedatascience.com/feature-engineering-best-practices>

Sources for images

- ▶ <http://projectfreight.net/ws/project-freight-planning-part-3/>
- ▶ <https://www.workfromhomechristians.com.au/wp-content/uploads/2012/08/what-can-I-do1-300x300.jpeg>
- ▶ <https://qph.fs.quoracdn.net/main-qimg-a2bdcb6297b0091398767e4e4c69866d>