Launching Data initiatives is easy.

Bringing value at scale from Data isn't.



10 pitfalls

holding you back bringing value from data at scale





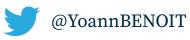
hymaia

Hi, there!



Yoann Benoit

Head of Data & Co-Founder @Hymaïa





yoann-benoit

Questions to reflect on



Do you have all the skills to create end-to-end Data Products?



Do you see Data as a way to confirm your "business intuitions"?



Do you often have people asking you "is there something wrong with the Data"?

Trap #1

Narrowing Down Data to DS + DE







Pitfall #1

Not having a diverse enough Data Team



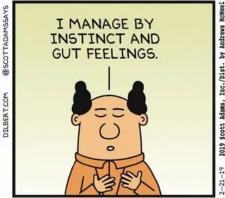




Pitfall #2

Being trapped in one's own biases











Pitfall #1

Not having a diverse enough Data Team



Pitfall #2

Being trapped in one's own biases

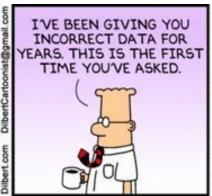




Pitfall #3

Believing data is trustworthy by default











Pitfall #1

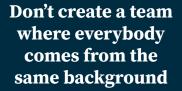
Not having a diverse enough Data Team





Pitfall #2

Being trapped in one's own biases





Pitfall #3

Believing data is trustworthy by default

> Invest in Data Quality and Governance to generate trust



Takeaway

Data is plural.

Go beyond "profile" and think "skills".



Questions to reflect on







Is your centralized Data
Team becoming a bottleneck?



How painful is the deployment and management of your ML models?

Trap #2

Reinventing the wheel

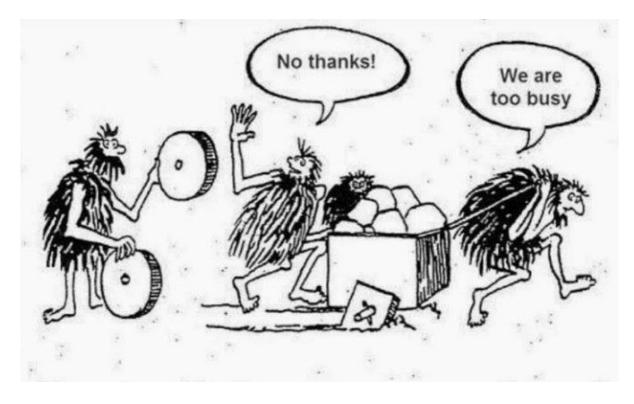






Pitfall #4

Believing Data is exempt from Software Engineering best practices







Pitfall #5

Letting Data
Teams become a
bottleneck











Pitfall #4

Believing Data is exempt from Software Engineering best practices



Pitfall #5

Letting Data
Teams become a
bottleneck





Pitfall #6

Thinking
"one-shot" when
moving Machine
Learning to
production







Pitfall #4

Believing Data is exempt from Software Engineering best practices

Data & ML
Engineering:
Software
Engineering
applied to Data



Pitfall #5

Letting Data Teams become a bottleneck

Data Mesh:
Domain Driven
Design applied to
Data



Pitfall #6

Thinking
"one-shot" when
moving Machine
Learning to
production

MLOps: DevOps applied to Data



Takeaway

Data is Software.

Steal from software engineering and DevOps design patterns & best practices.



Questions to reflect on







Did you generate trust on simple needs before building more complex Use Cases ?

Trap #3

Rushing Headlong: Fear of Missing Out





Rushing Headlong - Fear of Missing Out



Pitfall #7

Falling in the never-ending-PoC trap



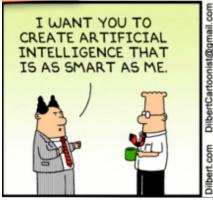


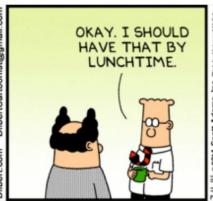
Rushing Headlong - Fear of Missing Out



Pitfall #8

Jumping too quickly into complex Use Cases









Rushing Headlong - Fear of Missing Out



Pitfall #7

Falling in the never-ending-PoC trap

A Data Product is only valuable if it brings business value



Pitfall #8

Jumping too quickly into complex Use Cases

Start with simple Use Cases, but end-to-end



Takeaway

Data is Product.

Steal from Product Thinking and Product Management best practices.



Questions to reflect on







Is there a "voice of data" in strategic instances and decisions?

Trap #4

Feeding the Data Mystification



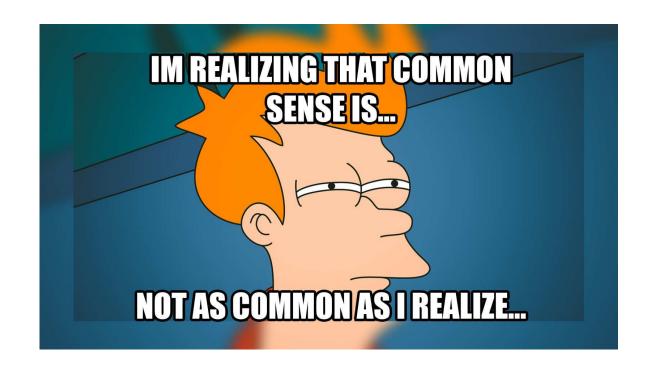


Feeding the Data Mystification



Pitfall #9

Believing Data Culture concerns only the Data Team



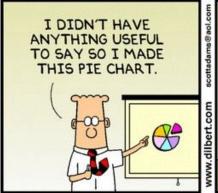


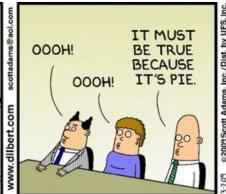
Feeding the Data Mystification



Pitfall #10

Not including
Data in strategic
decisions









Feeding the Data Mystification



Pitfall #9

Believing Data
Culture concerns
only the Data
Team

Build a multi-level data acculturation program



Pitfall #10

Not including
Data in strategic
decisions

Give purpose to the Data Team's work



Takeaway

Data is Culture.

"The next era for Data & AI is to democratize access."

Andrew Ng



Data Traps



Narrowing down Data to Data Science & **Data Engineering**





Reinventing the wheel





Rushing Headlong because of the fear of missing out

Feeding the Data Mystification







10 pitfalls holding you back bringing value from data at scale



Not having a diverse enough Data Team

Build a diverse Data Team, including business and product



Being trapped in one's own biases

Don't create a team where everybody comes from the same background



Believing data is trustworthy by default

Invest in Data Quality and Governance to generate trust



Believing Data is exempt from Software Engineering best practices

Data & ML Engineering : Software Engineering applied to Data



Letting Data Teams become a bottleneck

Data Mesh : Domain Driven Design applied to Data



Thinking "one-shot" when moving Machine Learning to production

MLOps: DevOps applied to Data



Falling in the never-ending-PoC trap

A Data Product is only valuable if it brings business value



Jumping too quickly into complex Use Cases

Start with simple Use Cases, but end-to-end



Believing Data Culture concerns only the Data Team

Build a multi-level data acculturation program



Not including Data in strategic decisions

Give purpose to the Data Team's work



Conclusion

Data is not a goal in itself.

It's a means to move towards your purpose as a company.



Thank You!



E-Book (in french) from the talk

