

Kicking off your Machine Learning Solution

Describe your solution in one or two sentences:

Organizational Challenges

Which do you expect to experience in your organization and how could you react to them?

Culture not ready Corporate culture does not allow for failures which are inevitable in the first phase of an ML project.	Unrealistic Expectations Expectations of ML are unrealistic. Really useful solutions are often unspectacular.	Underestimation Doing machine learning requires a lot of skills, developers need to learn over years.	Data Handling Data is available, but you can't get access, e.g. to sensitive information	Biases Mindsets and data will have strong biases

Business Context

Be as specific as possible

Motivation What do you need the solution for?	Baseline Do you have an existing solution? If not: what could be a basic solution?	Metrics How would you measure the success of the system?	Users Who will use the solution and how? Is this internal or external users?	Robustness What will be the consequences of downtimes and errors?

Best Practices



It is no shame to develop something without ML



1. Develop a metric and a baseline
2. ML



Choose ML instead of complex heuristics



Keep first models simple to professionalize infrastructure, roles and process



Iterate or decommission



You are NOT the typical user



Turn those affected into stakeholders.
You will need them!