Data engineering is the process from data asset valuation to data automation and continuous deployment

Overview data engineering

DATA ENGINEERING PROCESS

Data asset valuation

Data opportunity screening

Data use case exploration

Data
automation
(of successful
use cases)

Data operation and asset optimization

Data monetarization



- Determine value of data in €
 - Information
 - Explanation
 - Process optimization
 - Revenue generation
- Develop data asset strategy
 - Buy
 - Add value
 - Sell business models



- Investigate the data lake
- Quality deep dives
- Standard data
- Unstructured data



- Prioritize use cases
- Explore data with advanced analytics
 - Linear/ non-linear regression
 - Factor analysis
 - Cluster analysis
 - Time series
 - Monte Carlo simulations
 - . . .



- Seamless workflow automation of use cases
- Top the lake
- Automize analytic steps
- Customize reports
- Monitor interpretation



- Validate operated data
 - Value generation/ cost savings
 - Adapt data operation to increase business value
 - Ensure continuous data and report quality



- Evaluate digital business models from data
- Press release
- FAQ's
- Agile implementation of micro-services

