Data science in predictive maintenance An optimization probblem

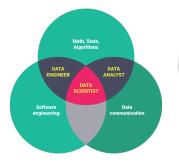
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August 21, 2019





Data science is a multidisciplinary field



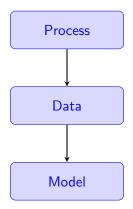




Data science optimizes processes



Data science methodology: A data driven modelling



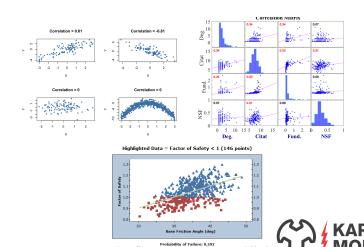


Data science methodology: Process conceptual model





Data science methodology: Data quality and understanding



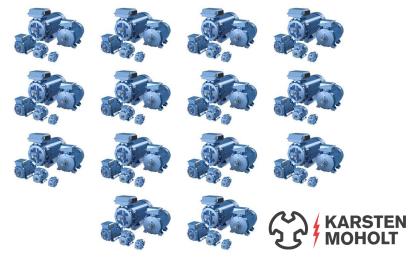
Data science methodology: Model



- Defect diagnosis
- 2 Asset remaining useful life estimation



Data science in methodology: Analytics at scale



Data science for maintenance optimization

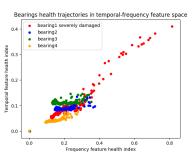


- Part ordering
- Maintenance planing
- Production optimization
- Process optimization



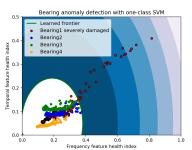


Data science in predictive maintenance: Machine health index





Data science in predictive maintenance: Pattern recognition





What else?



