Data science in predictive maintenance
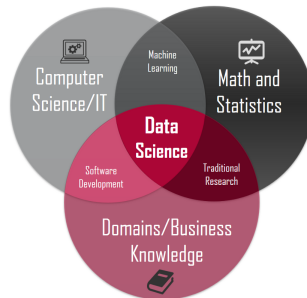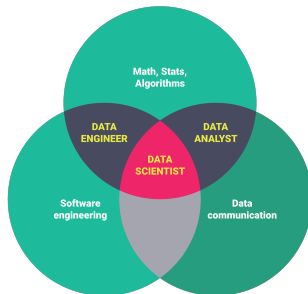## An optimization probblem

Yapi Donatien Achou

August 21, 2019
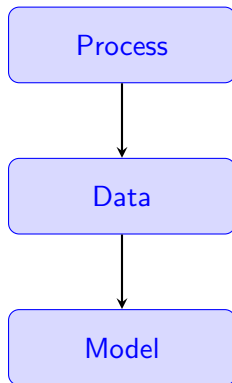
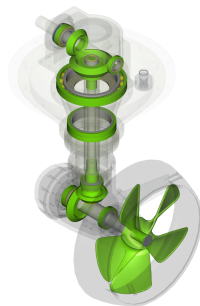**KARSTEN MOHOLT**

Data science is a multidisciplinary field

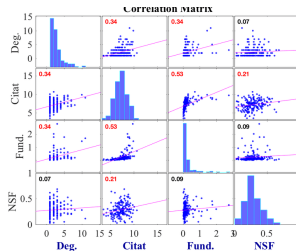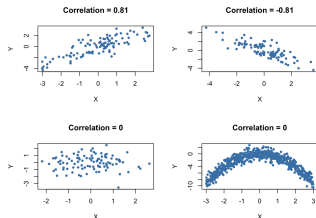# Data science optimizes processes
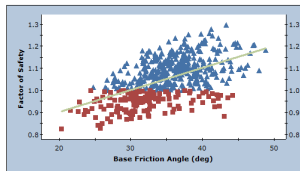
Data science methodology: A data driven modelling

Data science methodology: Process conceptual model

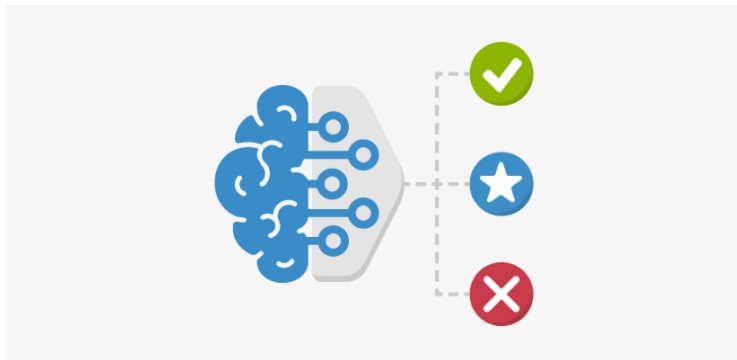# Data science methodology: Data quality and understanding

Data science methodology: Model

1 Defect diagnosis
2 Asset remaining useful life estimation

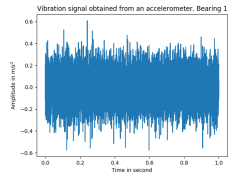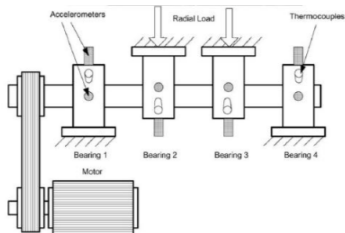# Data science in methodology: Analytics at scale

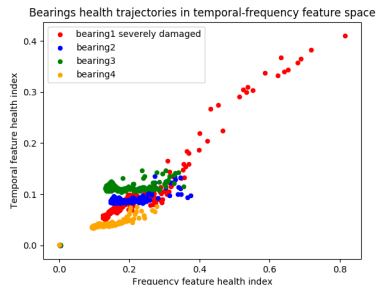# Data science for maintenance optimization

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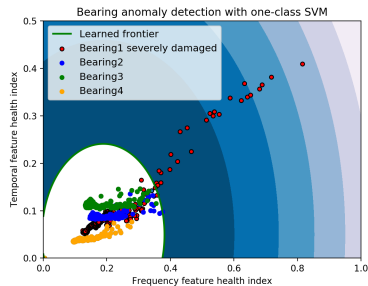- Process optimization
-

Data science in predictive maintenance: Bearings fault detection

Data science in predictive maintenance: Machine health index

Data science in predictive maintenance: Machine learning

What else?