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## DISCOVERY & ANALYSIS PHASE

- 1 Discuss business issue / problem scenario
- 2 Define ML problem
- 3 Check & understand data
- 4 Define approach to solve problem
  - *single algorithm technique or ensemble approach*

- *Business process analysis*
- *Infrastructure analysis*
- *Problem identification*
- *ML opportunity identification*

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## MODEL PROTOTYPE & EVALUATION PHASE

- 1 Custom Model engineering, including test & tune process
- 2 Deliver and evaluate test results

- *Custom ML algorithm*
- *Algorithm tuning*
- *Feature engineering*
- *Data cleaning*

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## MODEL PRODUCTION IMPLEMENTATION

### Framework Delivery, Integration & Release

- One-off service: Results delivery
- Production service:
  - *Automated batch*
  - *Real time JSON API*

- *Ongoing model tuning*
- *Model automation*
- *Model scaling*
- *Service Architecture*

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## MAINTENANCE

### Requirements:

- Big Data (enough data to learn on / input)
- Output of high quality requires high-quality input (data)