

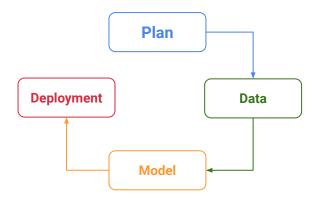
Data Science Lifecycle

The lifecycle outlines the steps that successful data-science projects follow

Prof. Dr. Jan Kirenz HdM Stuttgart

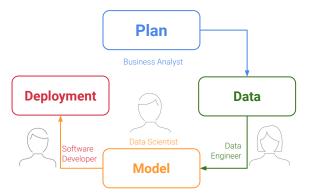
Data science includes ...

- Identifying promising use cases and creation of plans
- Data abilities
- Creation of models
- Understanding of deployment options



Lifecycle of an (machine learning) system

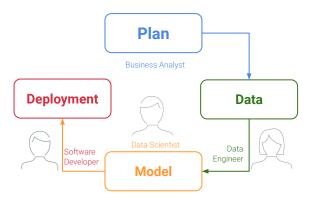
of an ML System



of an ML System

Plan | Data | Model | Deployment

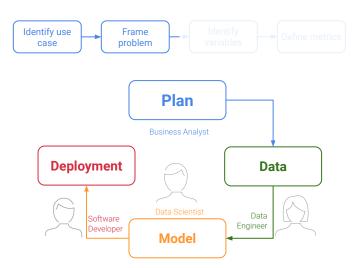




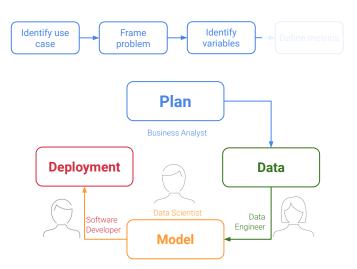
Business Model Canvas



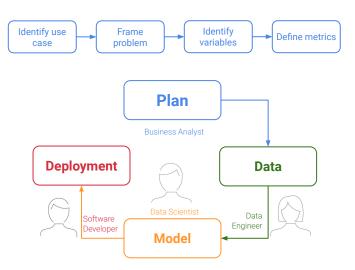
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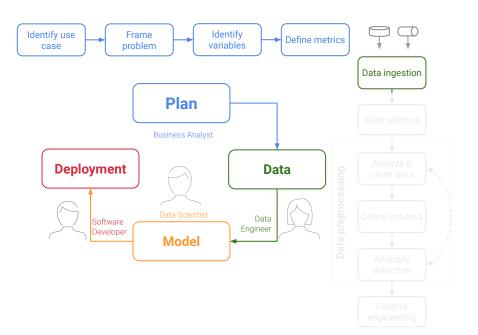
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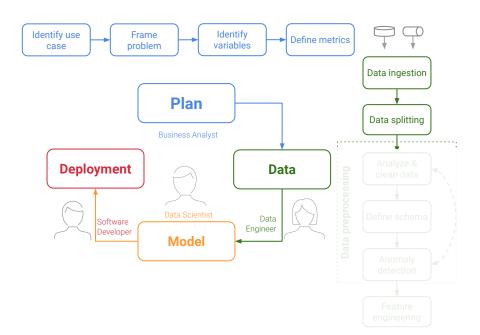
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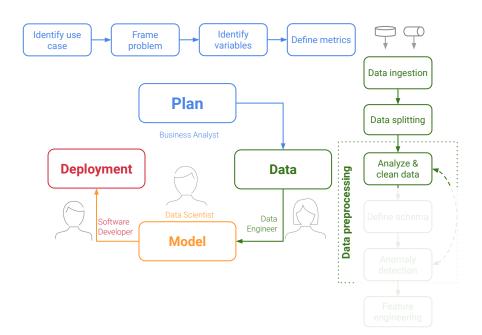
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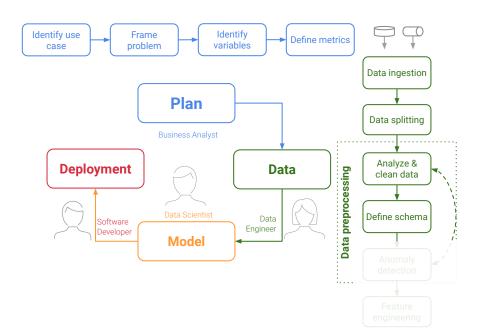
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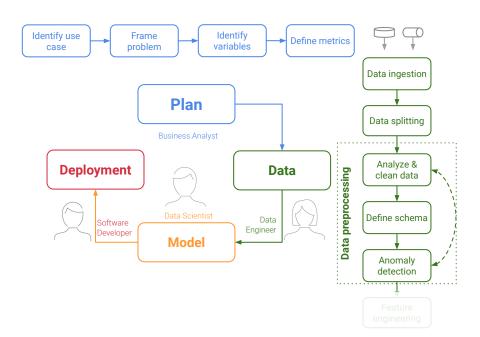
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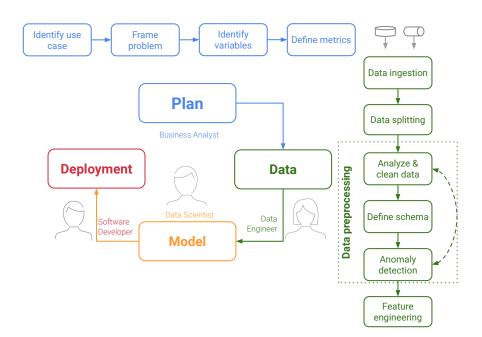
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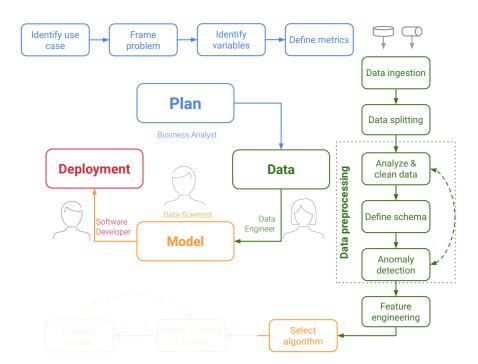
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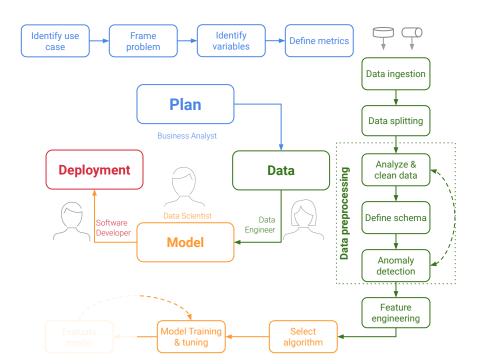
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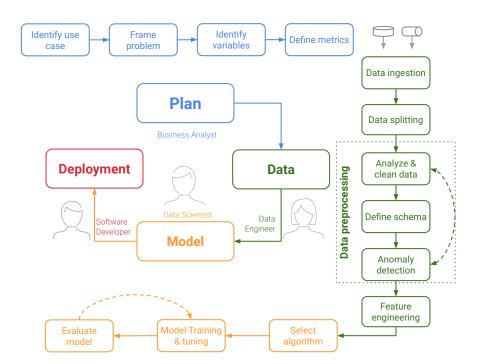
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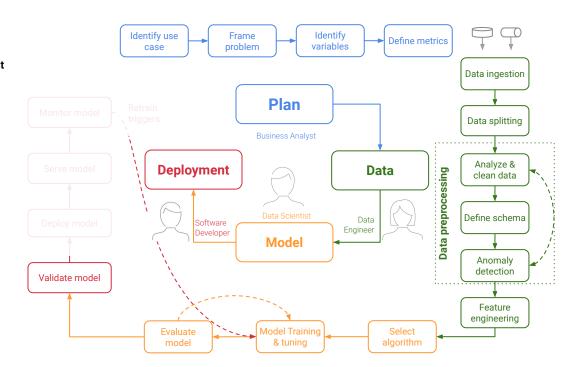
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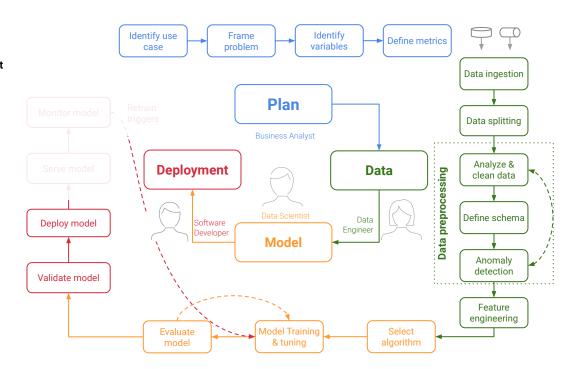
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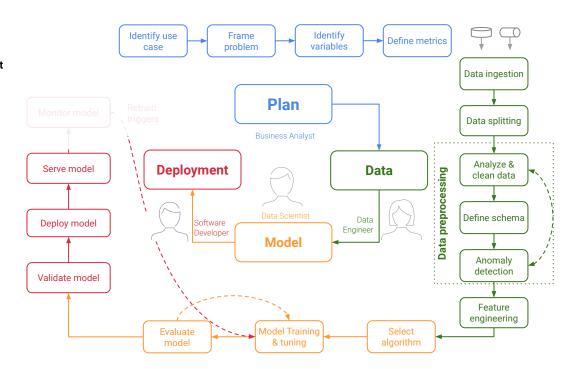
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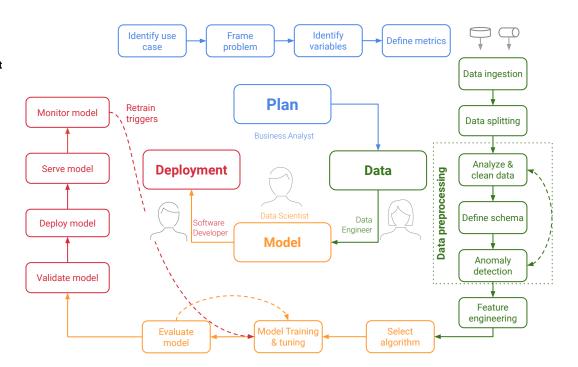
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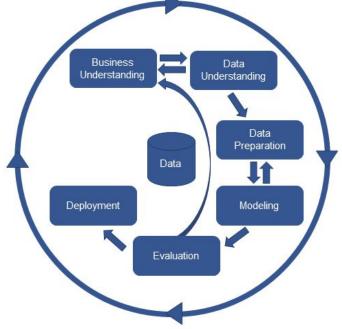
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Backup: alternative lifecycles Cross industry standard process for data mining (CRISP-DM)

1) Business understanding

- 2) Data understanding
- 3) Data preparation
- 4) Modeling
- 5) Evaluation
- 6) Deployment



Source: Wirth & Hipp (2000)

Data Science Lifecycle

