

DATA LIFECYCLE

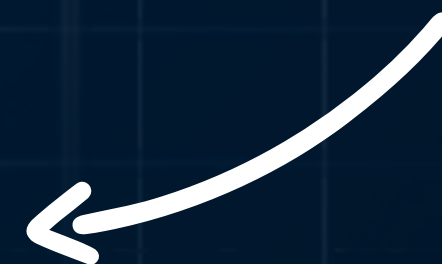
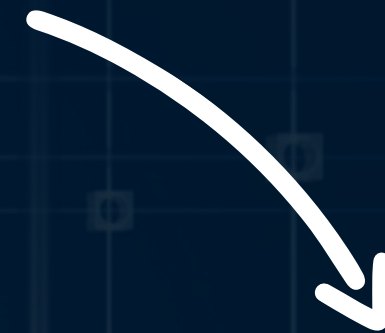
BUSINESS
UNDERSTANDING

DESIGN & EXPLORE

VALIDATE &
OPERATIONALIZE

BUILD SOLUTION

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BUSINESS UNDERSTANDING

- Define business challenge
- Determine urgency of business challenge
- Look for existing reports or solutions
- Identify audience
- Document business process
- Identify key decisions, key business metrics, and impact metrics

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DESIGN & EXPLORE

- Explore related data and data sources
- Calculate key metrics and verify with standards
- Gather data source metadata
- Document potential quality concerns and review with stakeholders
- Generate an initial solution design and review with stakeholders
- Determine solution feasibility

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BUILD SOLUTION

- Once approved, begin the build process for the solution
- Should be an iterative process of building key elements and reviewing
- Build solution based on key requirements and feasibility
- Schedule sessions to discuss design updates
- Build monitoring capability and tests

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VALIDATE & OPERATIONALIZE

- Go through baseline testing and user acceptance testing prior to deploying
- Publish solution into operations (public dashboard, connect to applications)
- Publish monitoring systems
- Monitor solution usage and opportunities for improvement
- Continue testing and monitoring for business impact and effectiveness

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