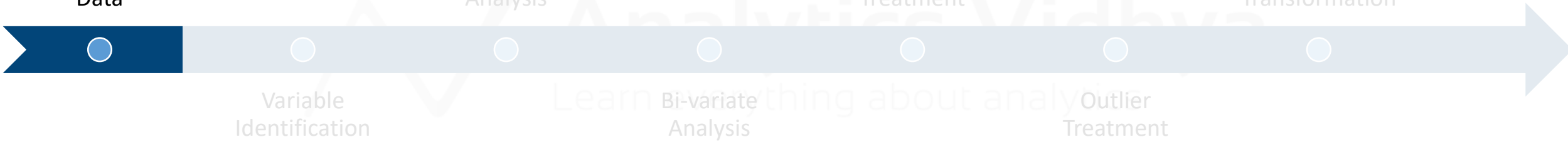
Data Exploration

Analytics Vidhya
Learn everything about analytics

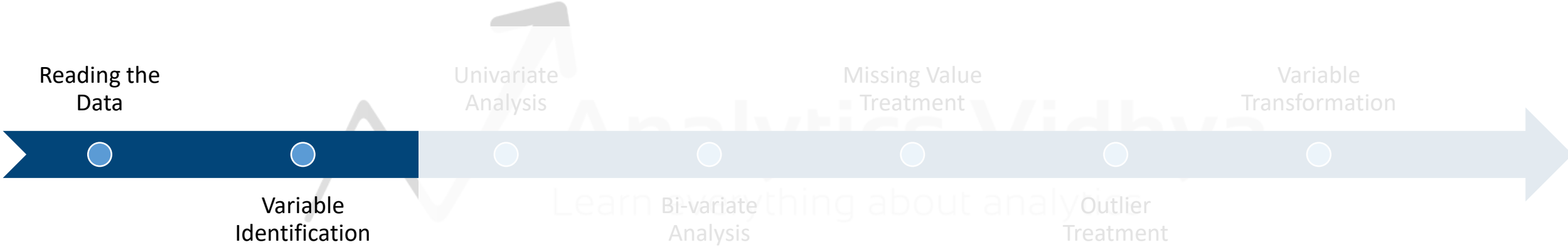
Analytics Vidhya
Learn everything about analytics

Stages of Data Exploration



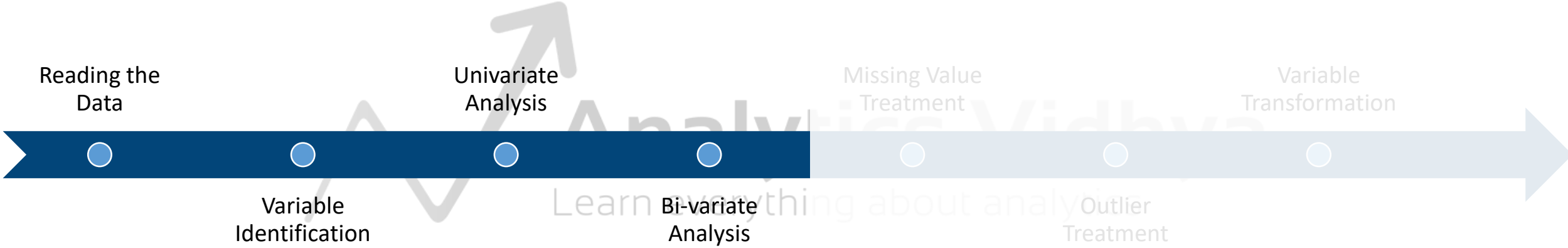
Analytics Vidhya
Learn everything about analytics

Stages of Data Exploration



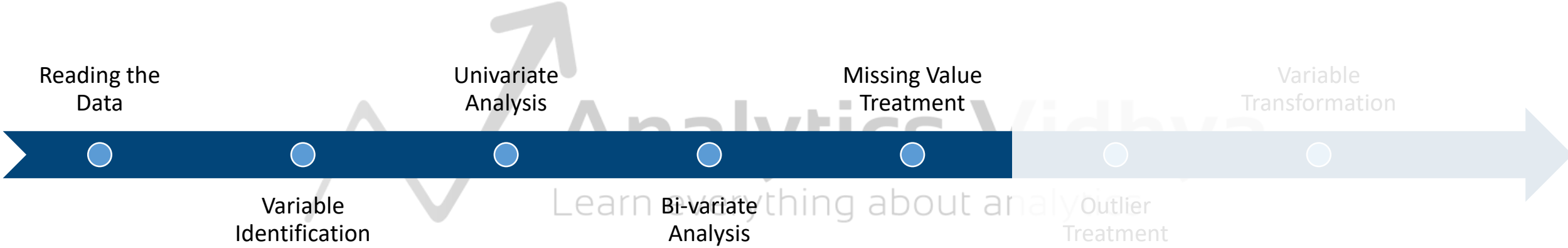
Analytics Vidhya
Learn everything about analytics

Stages of Data Exploration



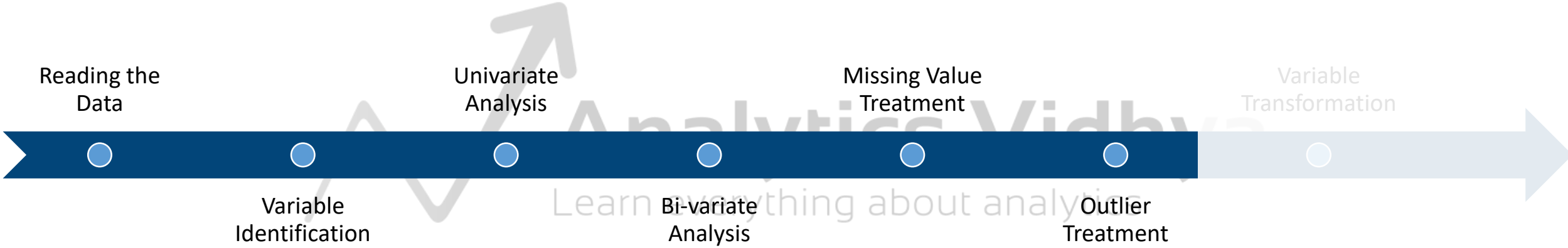
Analytics Vidhya
Learn everything about analytics

Stages of Data Exploration



Analytics Vidhya
Learn everything about analytics

Stages of Data Exploration

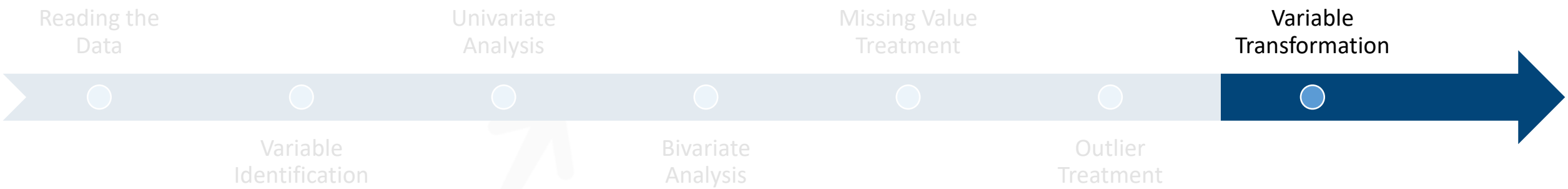


Analytics Vidhya
Learn everything about analytics

Stages of Data Exploration

Analytics Vidhya
Learn everything about analytics

Stages of Data Exploration



Analytics Vidhya
Learn everything about analytics

Topics to be covered

1. What is Variable Transformation?
2. What do we use Variable Transformation?
3. Common methods for Variable Transformation

Analytics Vidhya
Learn everything about analytics

Variable Transformation

What is Variable Transformation?

Variable transformation is the process by which –

1. We replace a variable with some function of that variable. Example – replacing a variable x with its logarithm.
2. We change the distribution or relationship of a variable with others

Analytics Vidhya
Learn everything about analytics

Analytics Vidhya
Learn everything about analytics

Variable Transformation

Why do we use Variable Transformation?

Variable Transformation is used to –

1. Change the scale of a variable. For example – If 10 variables are measured in km and 1 in miles
2. Transforming non linear relationships into linear relationships
3. Create symmetric distributions from skewed distributions

Analytics Vidhya
Learn everything about analytics

Variable Transformation

Common methods of Variable Transformation?

Analytics Vidhya
Learn everything about analytics

1. Logarithm – Taking log of the variable reduces right skewedness of the variable.
2. Square root – Used for right skewed variable with positive values only.
3. Cube root – Used for right skewed variable with positive or negative values.
4. Binning – Used for converting Continuous variables to Categorical variables.

Analytics Vidhya
Learn everything about analytics

Thank You

Analytics Vidhya
Learn everything about analytics

Analytics Vidhya
Learn everything about analytics