

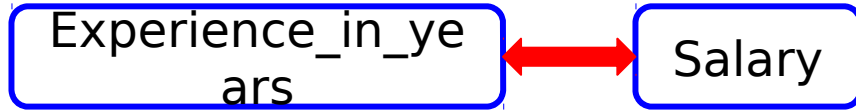
Introduction to Factor Analysis

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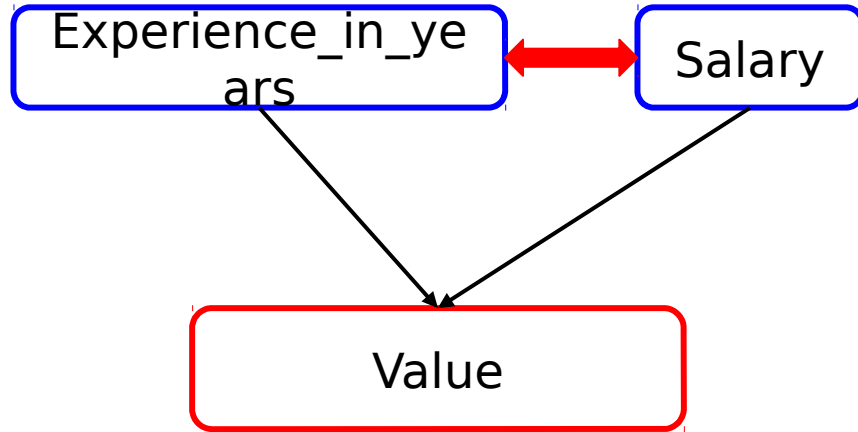
Experience_in_years

Salary

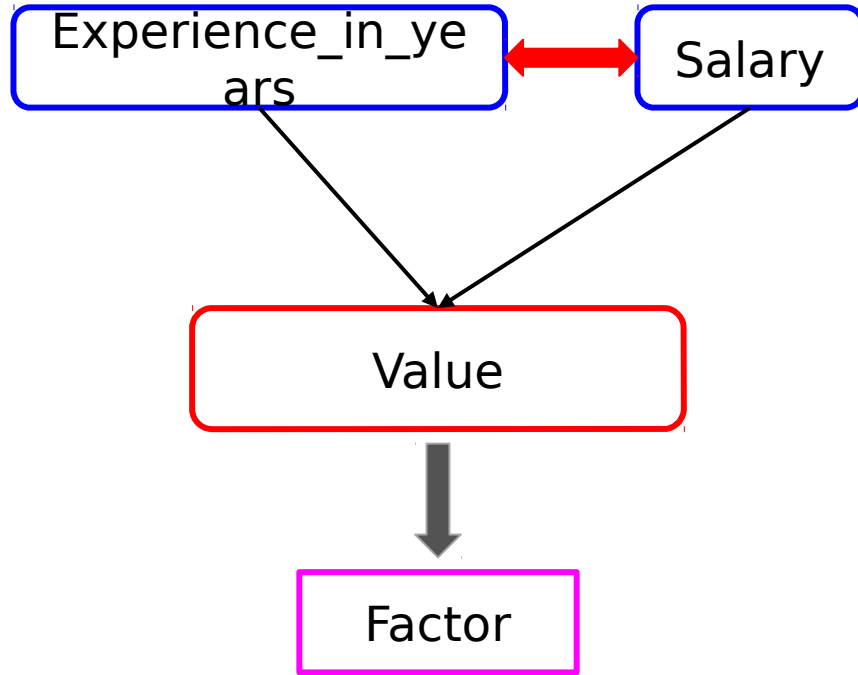
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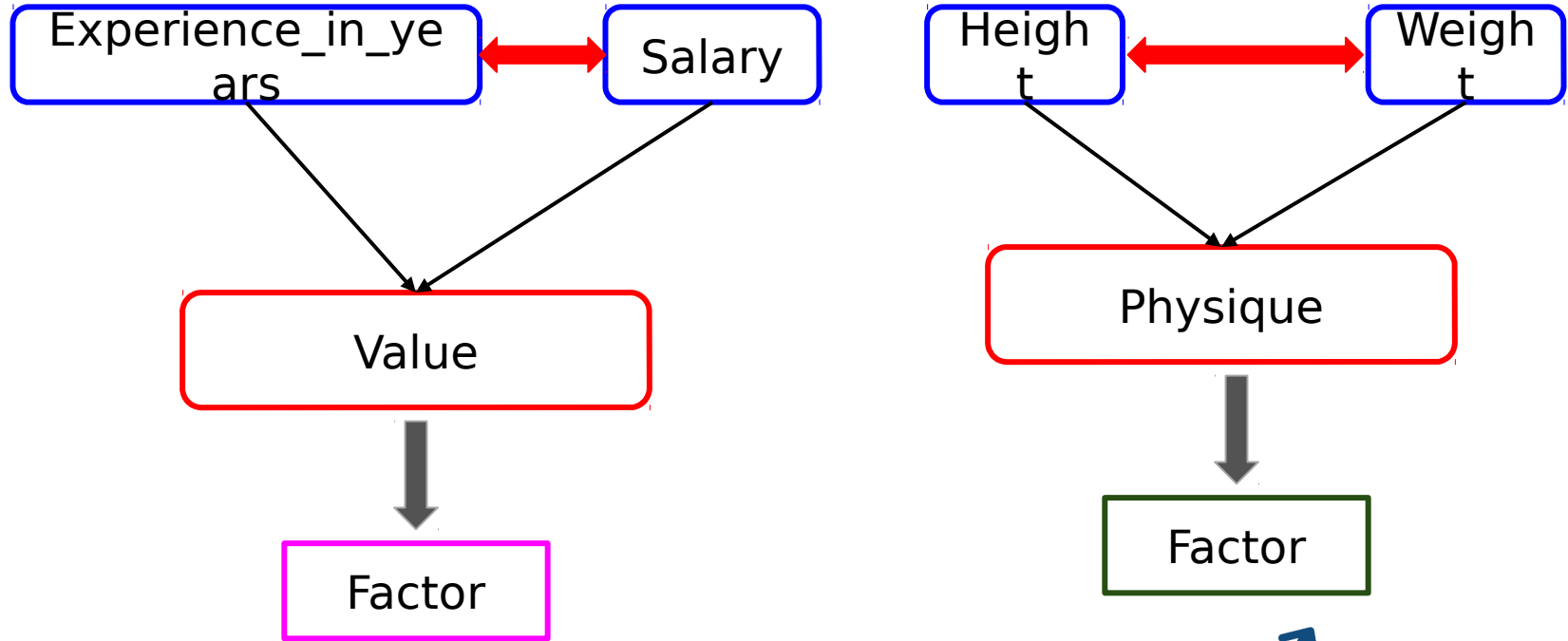
Introduction to Factor Analysis



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Introduction to Factor Analysis

- Factors: Linear combination of original variables

Objectives of Factor Analysis

- Reduce the number of variables
- Examine the relationship between variables
- Address the problem of multicollinearity

Assumptions of Factor Analysis

- Original variables should be normalized
- Factors are independent of each other
- There exists some underlying factors that can describe the original variables

Types of Factor Analysis

1) Exploratory Factor Analysis (EFA)

- a) Identify relationships among variables
- b) Group variables that are part of similar concept
- c) No prior assumptions about number or relationships among factors

2) Confirmatory Factor Analysis (CFA)

- a) Assumptions regarding the number of factors
- b) Test the hypothesis that variables are associated with n specific factors

Thank
You!