Topics Covered

- Concept of generative attributes

- Types of generative attributes in One AI

  - Metrics

  - Customized metrics

  - Aggregations

- Creation, management, & utilization of generative attributes

- Validation of generative attributes

Learning Outcomes

- You will understand the concept of generative attributes & their importance in providing additional, meaningful information beyond the original dataset

- You will know how to create effective generative attributes in One AI by selecting appropriate metrics, time selections, grouping, & filters

- You will understand the importance of validating generative attributes to ensure data integrity & model readiness

- You will gain insight into how generative attributes can improve model performance by enriching the feature set & enabling the discovery of more complex patterns in the data

Generative Attributes Overview

Overview

- **Generative attributes** are new input variables derived from the original model dataset that are contenders for being selected as features

  - Also known as engineered features

  - Transform raw data into more meaningful features that can be **richer in predictive value** than what's available on individual records

- Goals

  - Increase model **performance & robustness**

  - Provide additional attributes with more meaningful information

  - Discover complex **patterns & relationships** within the dataset

Types of Generative Attributes in One AI

Types of Generative Attributes in One AI

1. **Metrics**
    - An existing OM metric tied to the **same** time period as the model base query dataset
    - Examples: Promotions Last Year, Transfers Last Year

2. **Customized Metrics**
    - Existing OM Metrics that are **filtered independently, converted to binary, null-filled, and/or tied to periods of time that differ** from the model base query data set.
    - Examples: Progression Promotions All Time, Binary

3. **Aggregations**
    - Existing OM Metrics that are **explicitly grouped by an id column** such as team, plant, location, etc.
    - Examples: Team Terminations; Plant Safety Incidents

Creating & Managing Generative Attributes

Step by Step Generative Attribute Building Examples

Validating Generative Attributes in One AI