Age Generalization Hierarchy

Level 1: Precise Age

Individual ages (e.g., 17, 18, 19, ..., 90+). // The data of age starts from 17 and ends with 90

Level 2: Small Age Ranges

Ages grouped into small ranges.

Groups: 17-19, 20-29, 30-39, 40-49, 50-59, 60-69, 70-79, 80-89, 90+.

Level 3: Medium Age Ranges

Broader ranges for generalization.

Groups: 17-29, 30-49, 50-69, 70+.

Level 4: Broad Age Groups

Very broad generalization into common life stages.

Groups: Young Adult (17-29), Middle Age (30-49), Senior (50-69), Elderly (70+).

Level 5: Generalized to the Top

All ages generalized to a single category: All Ages.

Education Generalization Hierarchy:

Level 1: Precise Education Levels

Preschool, 1st-4th, 5th-6th, 7th-8th, 9th, 10th, 11th, 12th, HS-grad, Assoc-voc, Prof-school, Some-college, Assoc-acdm, Bachelors, Masters, Doctorate.

Level 2: Grouped by Specific School Types

Primary School: Preschool, 1st-4th, 5th-6th

Middle School: 7th-8th, 9th

High School: 10th, 11th, 12th, HS-grad

Vocational School: Assoc-voc, Prof-school, Some-college

Undergraduate School: Assoc-acdm, Bachelors

Graduate School: Masters, Doctorate

Level 3: Grouped by Educational Stage

Compulsory School: Primary School, Middle School, High School

Basic Degree: Vocational School, Undergraduate School

Advanced Degree: Masters, Doctorate

Level 4: Grouped by Education Level

Compulsory School: Compulsory School

Advanced School: Basic Degree, Advanced Degree

Level 5: Generalized to the Top

Education: Compulsory School, Advanced School

Marital status:

Level 1: Precise marital status

Married-civ-spouse, Divorced, Never-married, Separated, Widowed, Married-spouse-absent, Married-AF-spouse.

Level 2: Generalized by the type of relationship

Separated-Married: Separated, Married-spouse-absent

Single: Never-Married, Widowed, Divorced

Married-Together: Married-civ-spouse, Married-AF-spouse

Level 3: Generalized to either married or not married

Married: Separated-Married

Not-Married: Single

Level 4:

*: Married, Not-Married

Race:

Level 1: Precise Race Values

White, Asian-Pac-Islander, Amer-Indian-Eskimo, Other, Black

Level 2: Grouped by Regional Origin

Caucasian: White

Asian: Asian-Pac-Islander

Indigenous: Amer-Indian-Eskimo

Other: Other

African Descent: Black

Level 3: Grouped by Broad Continental Category

Western Origin: Caucasian, African Descent

Eastern Origin: Asian, Indigenous

Other: Other

Level 4: Grouped into Two Categories

Western Origin: Western Origin

Non-Western Origin: Eastern Origin, Other

Level 5: Generalized to the Top

Race