

# Project

## 1. Properties

- Project
  - » Name: scenario**b**coarse
  - » Description: Not specified

## Input specification

### 1. Input data

- Data
  - » Records: 32561
  - » Attributes: 15

### 2. Attributes and transformations

- Insensitive attributes
  - » income: String
- Sensitive attributes
  - » None
- Identifying attributes
  - » None
- Quasi-identifying attributes
  - » capital-loss: Integer
  - » education: String
  - » occupation: String
  - » race: String
  - » native-country: String
  - » capital-gain: Integer
  - » sex: String
  - » hours-per-week: Integer
  - » fnlwgt: Integer
  - » education-num: Integer
  - » work-class: String
  - » marital-status: String
  - » relationship: String
  - » age: Integer
- Response variables
  - » None
- Generalization hierarchy
  - » Attribute: capital-loss
  - » Height: 4
  - » Minimum level: 0
  - » Maximum level: 3
- Generalization hierarchy
  - » Attribute: education
  - » Height: 3
  - » Minimum level: 0
  - » Maximum level: 2
- Generalization hierarchy
  - » Attribute: occupation

- » Height: 4
- » Minimum level: 0
- » Maximum level: 3
- Generalization hierarchy
  - » Attribute: race
  - » Height: 2
  - » Minimum level: 0
  - » Maximum level: 1
- Generalization hierarchy
  - » Attribute: native-country
  - » Height: 3
  - » Minimum level: 0
  - » Maximum level: 2
- Generalization hierarchy
  - » Attribute: capital-gain
  - » Height: 4
  - » Minimum level: 0
  - » Maximum level: 3
- Generalization hierarchy
  - » Attribute: sex
  - » Height: 2
  - » Minimum level: 0
  - » Maximum level: 1
- Generalization hierarchy
  - » Attribute: hours-per-week
  - » Height: 5
  - » Minimum level: 0
  - » Maximum level: 4
- Generalization hierarchy
  - » Attribute: fnlwgt
  - » Height: 4
  - » Minimum level: 0
  - » Maximum level: 3
- Generalization hierarchy
  - » Attribute: education-num
  - » Height: 4
  - » Minimum level: 0
  - » Maximum level: 3
- Generalization hierarchy
  - » Attribute: work-class
  - » Height: 3
  - » Minimum level: 0
  - » Maximum level: 2
- Generalization hierarchy
  - » Attribute: marital-status
  - » Height: 3
  - » Minimum level: 0
  - » Maximum level: 2
- Generalization hierarchy
  - » Attribute: relationship
  - » Height: 3
  - » Minimum level: 0

- » Maximum level: 2
- Generalization hierarchy
  - » Attribute: age
  - » Height: 5
  - » Minimum level: 0
  - » Maximum level: 4

### 3. Configuration

- Weights
  - » income: 0.5
  - » capital-loss: 0.5
  - » education: 0.5
  - » occupation: 0.5
  - » race: 0.5
  - » native-country: 0.5
  - » capital-gain: 0.5
  - » sex: 0.5
  - » hours-per-week: 0.5
  - » fnlwgt: 0.5
  - » education-num: 0.5
  - » work-class: 0.5
  - » marital-status: 0.5
  - » relationship: 0.5
  - » age: 0.5
- Settings
  - » Assume monotonicity: No
  - » Suppression limit: 0.1
- Risk thresholds
  - » Prosecutor risk: 0.05
  - » Journalist risk: 0.05
  - » Marketer risk: 0.05

## Output properties

### 1. Output data

- Data
  - » Records: 32561
  - » Attributes: 15
- Checksum
  - » SHA-256:  
05cfb7fd1770a737eae055ac7c9254dc2da603b0c491b6e02c7f27e2465165cc

### 2. Solutions

- Search space
  - » Size: 24883200
  - » Materialized: 16001

### 3. Transformation

- Transformation
  - » Anonymity: Yes
  - » Minimum information loss: 0.511534426259572

» Maximum information loss: 0.511534426259572

- Generalization scheme

- » age: 4/4
- » work-class: 2/2
- » fnlwgt: 3/3
- » education: 1/2
- » education-num: 2/3
- » marital-status: 1/2
- » occupation: 3/3
- » relationship: 0/2
- » race: 0/1
- » sex: 0/1
- » capital-gain: 1/3
- » capital-loss: 0/3
- » hours-per-week: 4/4
- » native-country: 2/2

#### 4. Data quality model

- Loss

- » Aggregate function: Geometric mean
- » Monotonic: No
- » Generalization factor: 1.0
- » Suppression factor: 1.0

#### 5. Privacy models

- k-Anonymity

- » Threshold (k): 20