**### Dataset 1: Credit-G**

**#### Description**

**This dataset classifies individuals as "good" or "bad" credit risks based on various financial and personal characteristics. The target variable is labeled as \*\*class\*\* with two categories: \*\*good\*\* (good credit) and \*\*bad\*\* (bad credit).**

**#### Overview**

**- \*\*Source:\*\* German Credit dataset**

**- \*\*Purpose:\*\* To classify individuals' credit risk, featuring a cost matrix that indicates the relative importance of classification errors (e.g., misclassifying a bad risk as good incurs higher costs).**

**#### Dataset Characteristics**

**- \*\*Number of Rows:\*\* 1,000**

**- Each row represents a person with financial and personal attributes.**

**- \*\*Number of Columns:\*\* 21 (including the target variable)**

**- \*\*Data Types:\*\***

**- 14 categorical columns**

**- 7 integer columns**

**#### Key Features**

**- \*\*checking\_status:\*\* Status of the person's checking account.**

**- \*\*credit\_history:\*\* History of credit payments (e.g., no delays, critical accounts).**

**- \*\*duration:\*\* Duration of the credit (in months).**

**- \*\*age:\*\* The person's age.**

**The \*\*class\*\* column indicates whether the credit risk is "good" or "bad."**

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**### Dataset 2: Mushroom**

**#### Description**

**This dataset classifies mushrooms as either "edible" (e) or "poisonous" (p) based on their physical characteristics. The target variable is labeled as \*\*class\*\* with two categories: \*\*e\*\* (edible) and \*\*p\*\* (poisonous).**

**#### Overview**

**- \*\*Purpose:\*\* To classify mushrooms using attributes such as color, odor, and habitat.**

**#### Dataset Characteristics**

**- \*\*Number of Rows:\*\* 8,124**

**- Each row represents a mushroom with various physical characteristics.**

**- \*\*Number of Columns:\*\* 23 (including the target variable)**

**- \*\*Data Types:\*\* All columns are categorical.**

**#### Key Features**

**- \*\*cap-shape:\*\* Shape of the mushroom cap (e.g., bell-shaped, flat).**

**- \*\*odor:\*\* Smell of the mushroom (e.g., almond, foul).**

**- \*\*gill-color:\*\* Color of the mushroom's gills.**

**The \*\*class\*\* column indicates whether a mushroom is "edible" or "poisonous."**