Modeling Notebook - Crime Analysis

 1. **Problem Definition**
- Objective: analyze crime done based gender, race, age, etc.

 2. **Model Selection**
- Classification Model: Predict `Category` (Violence/Other)
- Features: `Offender's Race, Offender's Gender, Victim's Age, Victim's Gender`
 3**. Data Preprocessing**
- Encoded categorical variables (Offender's Race, Gender).
- Split dataset (80% train, 20% test).