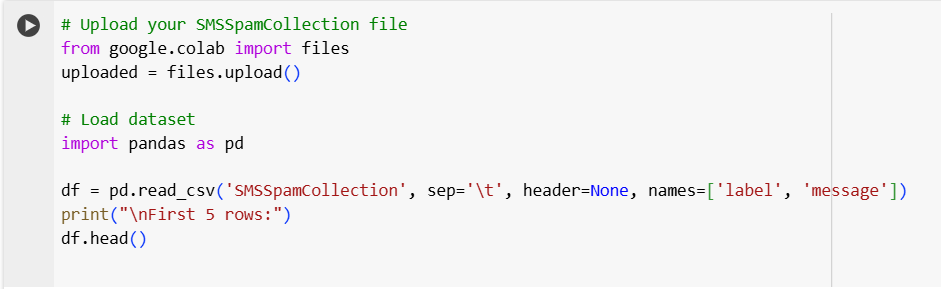
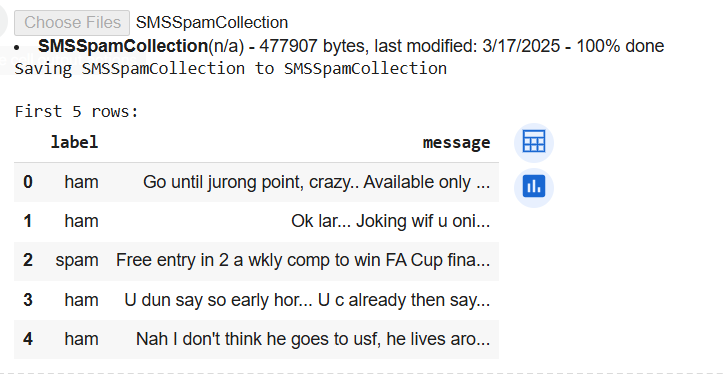
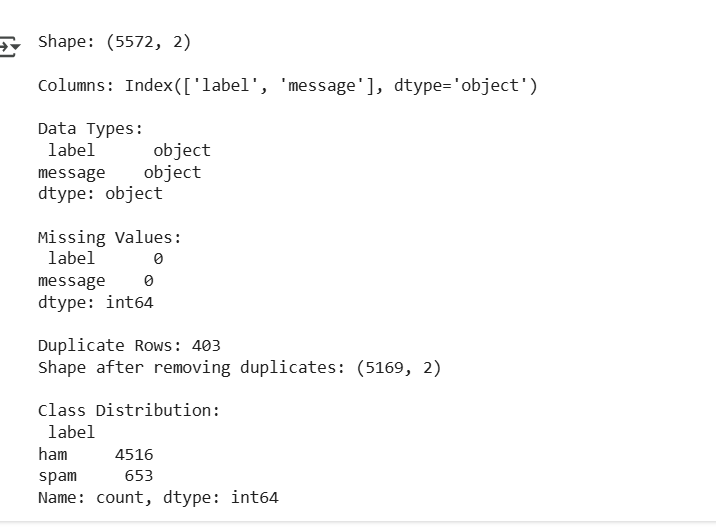
1. Load the dataset using Pandas.



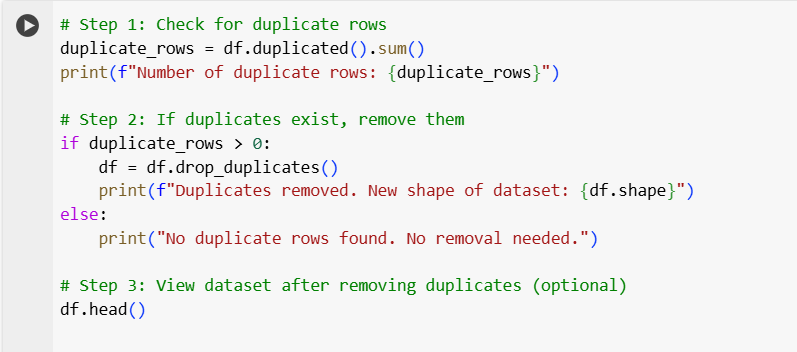


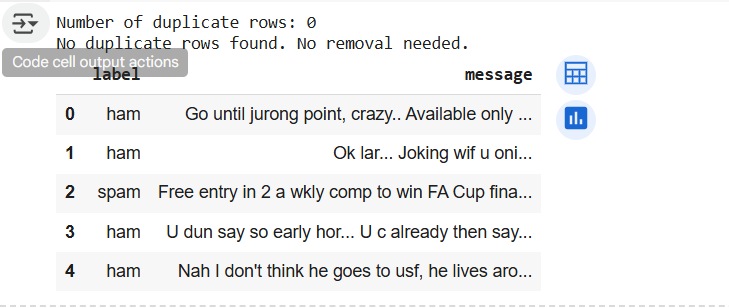
1. Check dataset shape, column names, and data types.



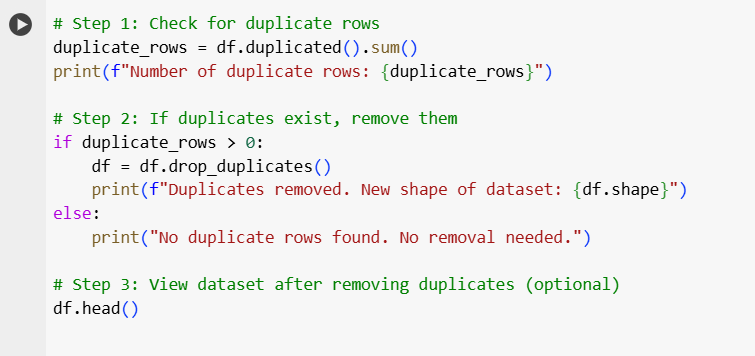


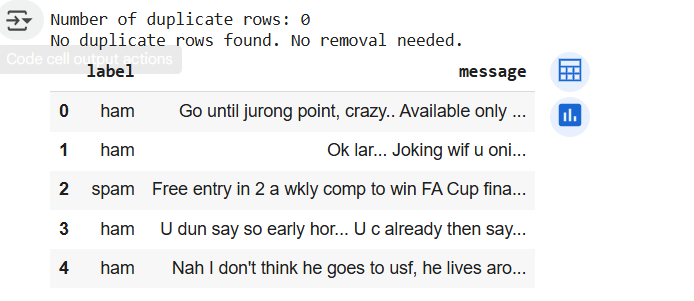
Check for duplicate rows and remove them if necessary.:





1. Calculate the distribution of class labels (e.g., 'ham' vs. 'spam').





1. Analyze dataset imbalance and perform data balancing (if needed).

