NAME: Nevetha S K

EMAIL ID: nevethasenthilkumar@gmail.com

PYTHON CODING ASSESSMENT

DATA CLEANING IN PYTHON USING PANDAS:

Data cleaning is a critical step in the data preprocessing phase. It involves handling:

- Missing values
- Duplicates
- Incorrect data types
- Outliers
- Inconsistent formatting

Example Dataset: student_data.csv

```
student_data.csv

Name,Age,Marks,City

John,20,85,New York

Jane,,90,Boston

Tom,21,,

John,20,85,New York

Alice,twenty-two,88,Boston

Bob,23,70,Boston

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Data Cleaning Programs:

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PANDAS JOINS IN PYTHON:

Pandas supports the following joins similar to SQL:

- Inner Join
- Left Join
- Right Join
- Outer Join