Data Cleaning and Preprocessing

SUMMARY

To clean and prepare the **Medical Appointment No-Shows** dataset by handling null values, duplicates, text inconsistencies, and encoding issues using **Microsoft Excel**.

Cleaning Steps (Using Excel)

- Checked and handled missing values using filters and "Go To Special → Blanks".
- Removed duplicate entries using the **Remove Duplicates** feature.
- Fixed encoding issues in the Neighbourhood column (e.g., SÃfO → SÃO) using manual correction and UTF-8 interpretation.
- Corrected typos and formatting issues in neighbourhood names.
- Trimmed extra spaces and standardized text fields using TRIM(), UPPER(), and PROPER().
- Converted date columns (ScheduledDay, AppointmentDay) to a uniform dd-mm-yyyy format.
- Checked and fixed data types (e.g., Age as number, binary values for medical indicators).
- Renamed column headers for consistency (e.g., No-show → no_show).