```
import pandas as pd
import numpy as np
df = pd.read csv("your data.csv") # Replace your data.csv with the actual file name
# Convert 'prev sold date' to datetime objects, coercing errors to NaT
df['prev_sold_date'] = pd.to_datetime(df['prev_sold_date'], errors='coerce')
# --- Numerical Imputation ---
# Replace -1 with NaN for numerical columns
numerical_cols = ['price', 'bed', 'bath', 'acre_lot', 'zip_code', 'house_size']
for col in numerical_cols:
    df[col] = pd.to_numeric(df[col], errors='coerce') # Convert to numeric, non-numeric becomes NaN
    df[col] = df[col].replace(-1, np.nan)
# Impute numerical columns using median (more robust to outliers)
for col in numerical_cols:
    df[col] = df[col].fillna(df[col].median())
# --- Categorical Imputation ---
# Replace '-' with NaN for categorical columns
categorical_cols = ['brokered_by', 'status', 'street', 'city', 'state']
for col in categorical_cols:
    df[col] = df[col].replace('-', np.nan)
# Impute categorical columns using the most frequent value (mode)
for col in categorical_cols:
    df[col] = df[col].fillna(df[col].mode()[0]) # Use mode()[0] to get the actual value
# --- Date Imputation ---
# Impute dates with the median date. Could also use a more sophisticated approach
# if date is important for your analysis (e.g., impute based on other features).
df['prev_sold_date'] = df['prev_sold_date'].fillna(df['prev_sold_date'].median())
print(df.head())
# Save the imputed dataframe to a new CSV file
df.to_csv("imputed_data.csv", index=False)
```

Explanation and Improvements:

- 1. Data Loading and Type Conversion:
 - Loads the data from a CSV file (replace "your_data.csv" with your file name).
 - Converts prev_sold_date to datetime objects, handling errors gracefully.
 - Converts numerical columns to the correct type, replacing non-numeric values and -1 with NaN.
- 2. Numerical Imputation:
 - Uses the median to impute missing numerical values. Median is generally preferred over mean for imputation as it's less sensitive to outliers.
- 3. Categorical Imputation:
 - Uses the mode (most frequent value) to impute missing categorical values.
- 4. Date Imputation:
 - Imputes missing dates using the median date. For more advanced date imputation, consider using techniques like forward fill, backward fill, or interpolation if the time series aspect of the data is important.
- 5. Saving the Imputed Data:
 - Saves the imputed DataFrame to a new CSV file named "imputed_data.csv".

Key Improvements over a Simpler Approach:

- Handles different data types correctly: Imputes numerical, categorical, and date columns using appropriate methods.
- More robust numerical imputation: Uses median instead of mean, which is less affected by outliers.
- Handles various missing value representations: Replaces "-", -1, and blank strings with NaN for consistent handling.
- Clearer and more organized code: Makes it easier to understand and maintain.

This improved code provides a more robust and accurate imputation strategy for your dataset. Remember to install the pandas library if you haven't already: pip install pandas