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# Data Processing and Visualization Script

import pandas as pd
import numpy as np
import matplotlib.pyplot as plt

# Load datasets
kidney = pd.read_csv('/mnt/data/kidney_disease.csv')
heart = pd.read_csv('/mnt/data/heart.csv')

# Handle missing values (example: fill numeric with median, categorical with mode)
def handle_missing(df):
    for col in df.columns:
        if df[col].dtype in ['float64', 'int64']:
            df[col] = df[col].fillna(df[col].median())
        else:
            df[col] = df[col].fillna(df[col].mode()[0])
    return df

kidney = handle_missing(kidney)
heart = handle_missing(heart)

# Handle outliers using IQR
def remove_outliers(df):
    for col in df.select_dtypes(include=['float64', 'int64']):
        Q1 = df[col].quantile(0.25)
        Q3 = df[col].quantile(0.75)
        IQR = Q3 - Q1
        lower = Q1 - 1.5*IQR
        upper = Q3 + 1.5*IQR
        df[col] = np.where(df[col] < lower, lower, df[col])
        df[col] = np.where(df[col] > upper, upper, df[col])
    return df

kidney = remove_outliers(kidney)
heart = remove_outliers(heart)

# Visualization (simple histograms)
plt.figure()
kidney.hist(figsize=(10,8))
plt.tight_layout()
plt.savefig('/mnt/data/kidney_hist.png')

plt.figure()
heart.hist(figsize=(10,8))
plt.tight_layout()
plt.savefig('/mnt/data/heart_hist.png')

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