


```
In [1]: import pandas as pd
import numpy as np
import random

# Lists of common first and last names
first_names = ['likhitha', 'Jane', 'sanju', 'chandu', 'roman', 'Olivia', 'pe
last_names = ['clevin', 'Johnson', 'raikar', 'Lee', 'Davis', 'shet', 'Anders

# Define the number of samples
num_samples = 401

# Generate random names for the dataset
names = [random.choice(first_names) + ' ' + random.choice(last_names) for _

# Create synthetic data for the dataset
np.random.seed(0) # For reproducibility
age = np.random.randint(29, 77, num_samples)
sex = np.random.randint(0, 2, num_samples) # 0 for female, 1 for male
chest_pain = np.random.randint(0, 4, num_samples) # 0-3 representing differ
blood_pressure = np.random.randint(90, 200, num_samples)
cholesterol = np.random.randint(120, 320, num_samples)
blood_sugar = np.random.randint(0, 2, num_samples) # 0 for normal, 1 for hi
ecg_results = np.random.randint(0, 3, num_samples) # 0-2 representing differ
heart_disease = np.random.randint(0, 2, num_samples) # 0 for no disease, 1
# Create a DataFrame with the synthetic data and names
data = pd.DataFrame({
    'Name': names,
    'Age': age,
    'Sex': sex,
    'ChestPainType': chest_pain,
    'RestingBloodPressure': blood_pressure,
    'Cholesterol': cholesterol,
    'FastingBloodSugar': blood_sugar,
    'RestingECG': ecg_results,
    'HeartDisease': heart_disease
})

# Save the dataset to a CSV file
data.to_csv('heart_disease_dataset.csv', index=False)

print("Synthetic heart disease dataset with random names created and saved a
csv_file="heart_disease_dataset.csv"
df=pd.read_csv(csv_file)
print(df)
```

Synthetic heart disease dataset with random names created and saved as 'heart_disease_dataset.csv'.

	Name	Age	Sex	ChestPainType	RestingBloodPressure	\
0	roman Clark	73	1	2		147
1	Jane Lee	76	0	0		107
2	likhitha clevin	29	1	3		191
3	chandu Anderson	32	0	3		179
4	reenu Lee	32	0	0		175
..
396	reenu Lee	42	0	3		109
397	chandu raikar	35	0	2		106
398	chandu shet	67	0	1		113
399	Ava Johnson	68	0	0		102
400	chandu Lee	37	1	2		189

	Cholesterol	FastingBloodSugar	RestingECG	HeartDisease
0	229	1	2	1
1	304	1	1	1
2	314	0	1	0
3	140	1	0	0
4	251	1	1	0
..
396	135	1	1	1
397	124	1	2	1
398	270	0	1	1
399	300	0	2	0
400	186	1	0	0

[401 rows x 9 columns]

In []: