

```
import pandas as pd
import numpy as np

# Generate synthetic mini dataset with 10 records
np.random.seed(42)
sample_data = {
    "Time": np.random.randint(0, 100000, 10),
    **{f"V{i}": np.random.randn(10) for i in range(1, 29)}
    "Amount": np.round(np.random.uniform(1, 1000, 10), 2),
    "Class": np.random.choice([0, 1], size=10, p=[0.9, 0.1])
}

df = pd.DataFrame(sample_data)
df.to_csv("creditcard.csv", index=False)
print("Sample creditcard.csv generated.")
```

🔄 Sample creditcard.csv generated.

NameError X

...



Please explain the error:

NameError: name 'pandas' is



## Hypothesis

The traceback indicates a

NameError: name 'pandas' is not defined. This error occurs when the Python interpreter encounters a name (in this case, pandas) that it doesn't recognize.

Based on the provided code and the global variables (which are empty, meaning no variables have been defined), the most likely cause is that the user is trying to use the names of libraries (pandas, numpy, scikit-learn, joblib, gradio) without explicitly importing them first. In Python, you must import a library before you can use its contents or even refer to its name [1]. The code pandas, numpy, etc., on their own, don't do anything meaningful in Python unless they are being used in conjunction with an import statement or as part of a larger expression.

## Suggested Changes

To resolve the NameError, you need to import the libraries you intend to use. If you are trying to use these lines to install the libraries, you should use the !pip install command instead. If you are trying to

check if the libraries are installed,  
you can attempt to import them



```
# If you want to install the  
# !pip install pandas  
# !pip install numpy  
# !pip install scikit-learn  
# !pip install joblib  
# !pip install gradio
```

```
# If you want to import the  
import pandas  
import numpy  
import sklearn # scikit-learn  
import joblib  
import gradio
```

```
# If you are just trying to  
# and if there's no ImportError
```



[Use code with caution](#)

► Sources

Enter a prompt here



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Gemini can make mistakes so double-check  
responses and use code with caution. [Learn more](#)