

preprocess.py

```
1 import pandas as pd
2 import numpy as np
3 from sklearn.preprocessing import MinMaxScaler
4
5 def preprocess_data(lookback=60):
6     # Load CSV
7     df = pd.read_csv("stock_data.csv")
8
9     # IMPORTANT FIX: ensure Close is numeric
10    df['Close'] = pd.to_numeric(df['Close'], errors='coerce')
11
12    # Drop rows with NaN values
13    df.dropna(inplace=True)
14
15    # Use ONLY Close price
16    data = df[['Close']].values.astype(float)
17
18    scaler = MinMaxScaler()
19    scaled_data = scaler.fit_transform(data)
20
21    X, y = [], []
22    for i in range(lookback, len(scaled_data)):
23        X.append(scaled_data[i-lookback:i, 0])
24        y.append(scaled_data[i, 0])
25
26    X, y = np.array(X), np.array(y)
27    X = X.reshape((X.shape[0], X.shape[1], 1))
28
29    split = int(0.8 * len(X))
30    return X[:split], y[:split], X[split:], y[split:], scaler
31
```