import pandas as pd

# df = pd.read\_csv('\Validation set prediction results\\Predictions from the {i}th round of the val\_data.csv') # validation set

df = pd.read\_csv('\Test set prediction results\\Predictions from the {i}th round of the test\_data.csv')

# Calculate the absolute error

df['Absolute Error'] = (df['Final values'] - df['label']).abs()

# Calculate the average and standard deviation of the absolute errors

mean\_absolute\_error = df['Absolute Error'].mean()

std\_deviation = df['Absolute Error'].std()

results = pd.DataFrame({

'Mean Absolute Error': [mean\_absolute\_error],

'Standard Deviation of Absolute Errors': [std\_deviation]

})

df.to\_csv('\Test set prediction results\Iteration {i}\output\_with\_errors.csv', index=False)

results.to\_csv('\Test set prediction results\Iteration {i}\error\_statistics.csv', index=False)

print('Mean Absolute Error:', mean\_absolute\_error)

print('Standard Deviation:', std\_deviation)