

BITs Lab :- Terminal Snapshot

```
File Edit View Terminal Tabs Help
st.write(f"Precision: {precision:.4f}")
st.write(f"Recall: {recall:.4f}")
st.write(f"F1 Score: {f1:.4f}")
st.write(f"MCC Score: {mcc:.4f}")

# Confusion Matrix
st.subheader("Confusion Matrix")

cm = confusion_matrix(y_test, y_pred)

fig, ax = plt.subplots()
sns.heatmap(cm, annot=True, fmt="d", cmap="Blues", ax=ax)
ax.set_xlabel("Predicted")
ax.set_ylabel("Actual")

st.pyplot(fig)

# Classification Report
st.subheader("Classification Report")
report = classification_report(y_test, y_pred, output_dict=True)
report_df = pd.DataFrame(report).transpose()

# Round values for clean display
report_df = report_df.round(3)

st.dataframe(report_df)
(base) [clouda@2023ac05474 ml_assignment_2]$ python -m streamlit run app.py

You can now view your Streamlit app in your browser.

Local URL: http://localhost:8501
Network URL: http://172.31.97.138:8501
```

BITs Lab :- Streamlit App Evidence

The screenshot shows a Streamlit application titled "Machine Learning Classification Model Comparison". The app has a header bar with the title and a progress bar indicating 67% completion. Below the header, there is a section for "Upload Test Dataset (CSV)" with a file upload input field. A note says "Using Default Dataset: Breast Cancer Wisconsin". Under "Select Classification Model", "Logistic Regression" is selected. The "Evaluation Metrics" section displays the following values:

Evaluation Metric	Value
Accuracy	0.9825
AUC Score	0.9954
Precision	0.9861
Recall	0.9861
F1 Score	0.9861
MCC Score	0.9623

The "Confusion Matrix" section is visible at the bottom of the page.

