APPENDIX

B) SCREENSHOTS

Pandas Profilling
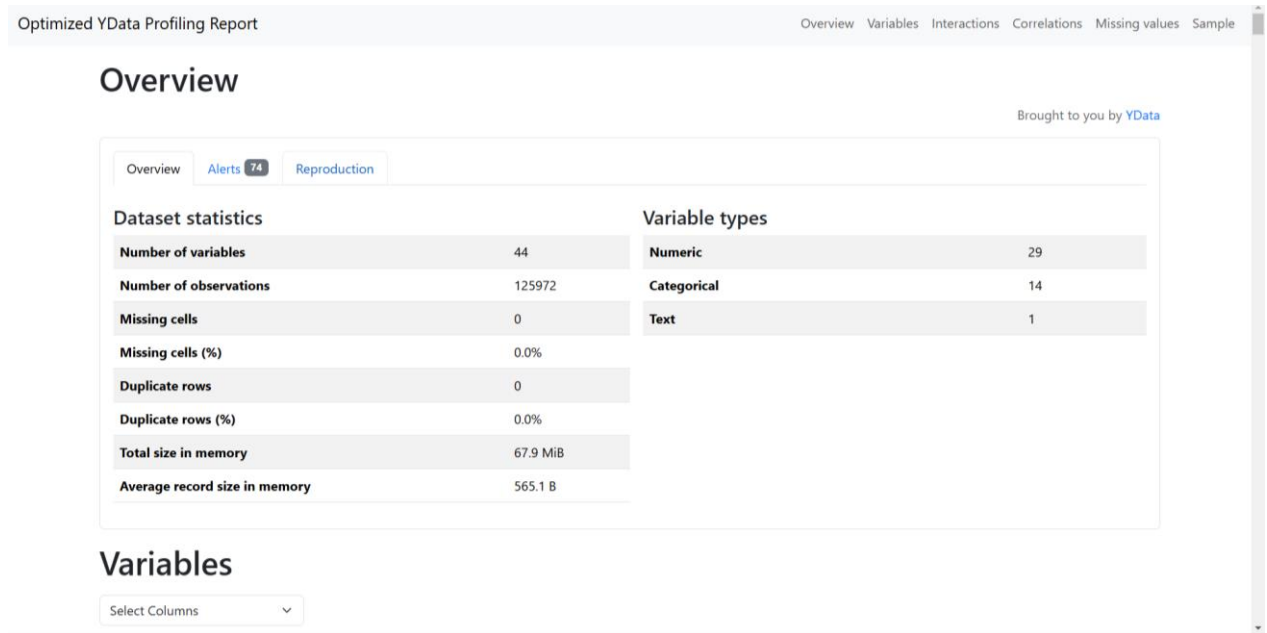
Correlation Matrix
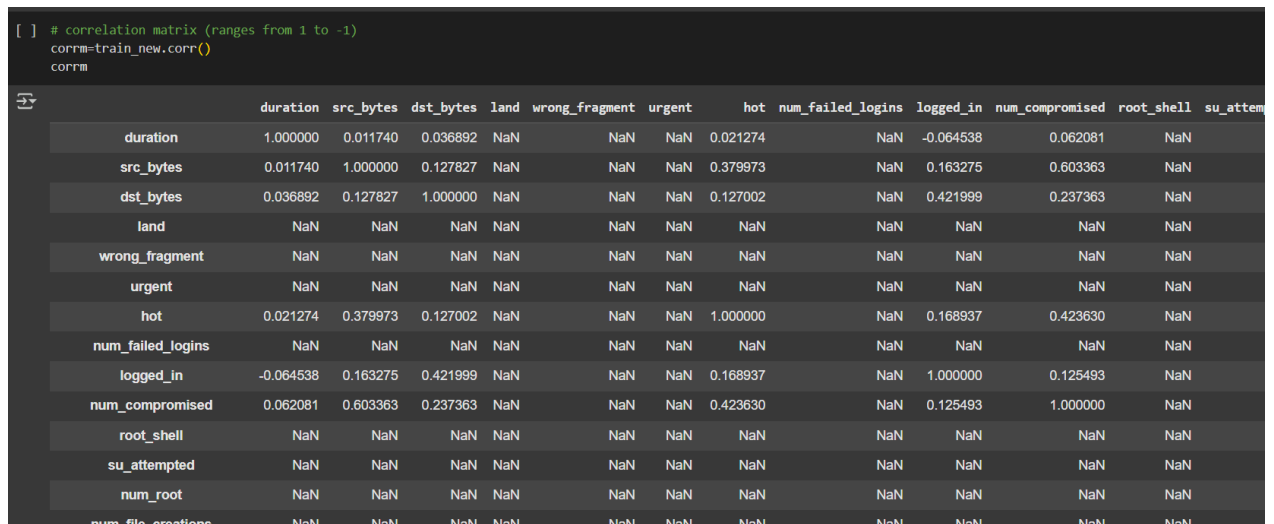
Correlation Matrix Heatmap

```
[ ] train_new.drop(columns=['land','wrong_fragment','urgent','num_failed_logins',"root_shell","su_attempted","num_root",
                   "num_file_creations","num_shells","num_access_files","num_outbound_cmds","is_host_login","is_guest_login",
                   'dst_host_rerror_rate','dst_host_serror_rate','dst_host_srv_rerror_rate','dst_host_srv_serror_rate',
                   'num_root','num_outbound_cmds','srv_rerror_rate','srv_serror_rate'], axis=1, inplace=True)
```

```
[ ] sns.heatmap(train_new.corr())
```


File running in terminal

```
C:\Users\meena\Downloads\Project>streamlit run main.py

  You can now view your Streamlit app in your browser.

  Local URL: http://localhost:8501
  Network URL: http://192.168.25.28:8501

C:\Users\meena\AppData\Local\Programs\Python\Python312\Lib\site-packages\sklearn\base.py:380: InconsistentVersionWarning
: Trying to unpickle estimator LogisticRegression from version 1.5.2 when using version 1.6.1. This might lead to breaki
ng code or invalid results. Use at your own risk. For more info please refer to:
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
  warnings.warn(
C:\Users\meena\AppData\Local\Programs\Python\Python312\Lib\site-packages\sklearn\base.py:380: InconsistentVersionWarning
: Trying to unpickle estimator LogisticRegression from version 1.5.2 when using version 1.6.1. This might lead to breaki
ng code or invalid results. Use at your own risk. For more info please refer to:
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
  warnings.warn(
C:\Users\meena\AppData\Local\Programs\Python\Python312\Lib\site-packages\sklearn\utils\validation.py:2739: UserWarning:
X does not have valid feature names, but LogisticRegression was fitted with feature names
  warnings.warn(
C:\Users\meena\AppData\Local\Programs\Python\Python312\Lib\site-packages\sklearn\utils\validation.py:2739: UserWarning:
X does not have valid feature names, but LogisticRegression was fitted with feature names
  warnings.warn(
C:\Users\meena\AppData\Local\Programs\Python\Python312\Lib\site-packages\sklearn\utils\validation.py:2739: UserWarning:
X does not have valid feature names, but LogisticRegression was fitted with feature names
  warnings.warn(
C:\Users\meena\AppData\Local\Programs\Python\Python312\Lib\site-packages\sklearn\utils\validation.py:2739: UserWarning:
X does not have valid feature names, but LogisticRegression was fitted with feature names
```
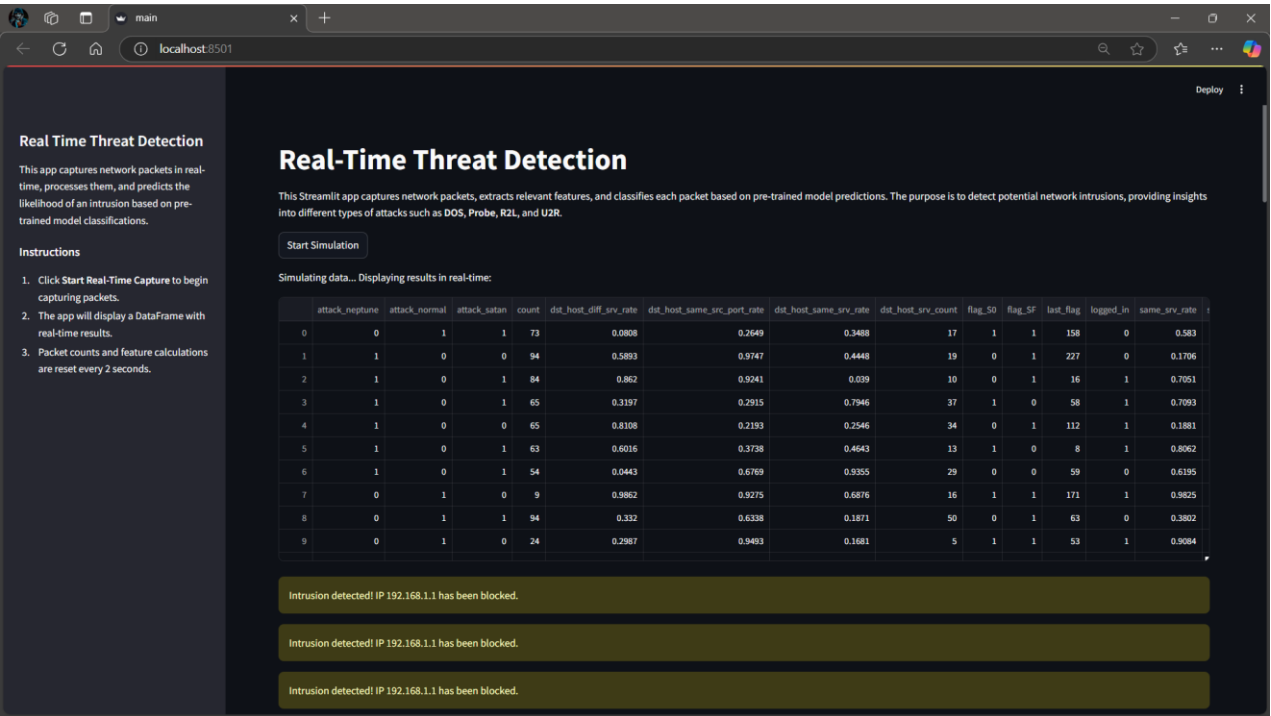
Streamlit Web Interface
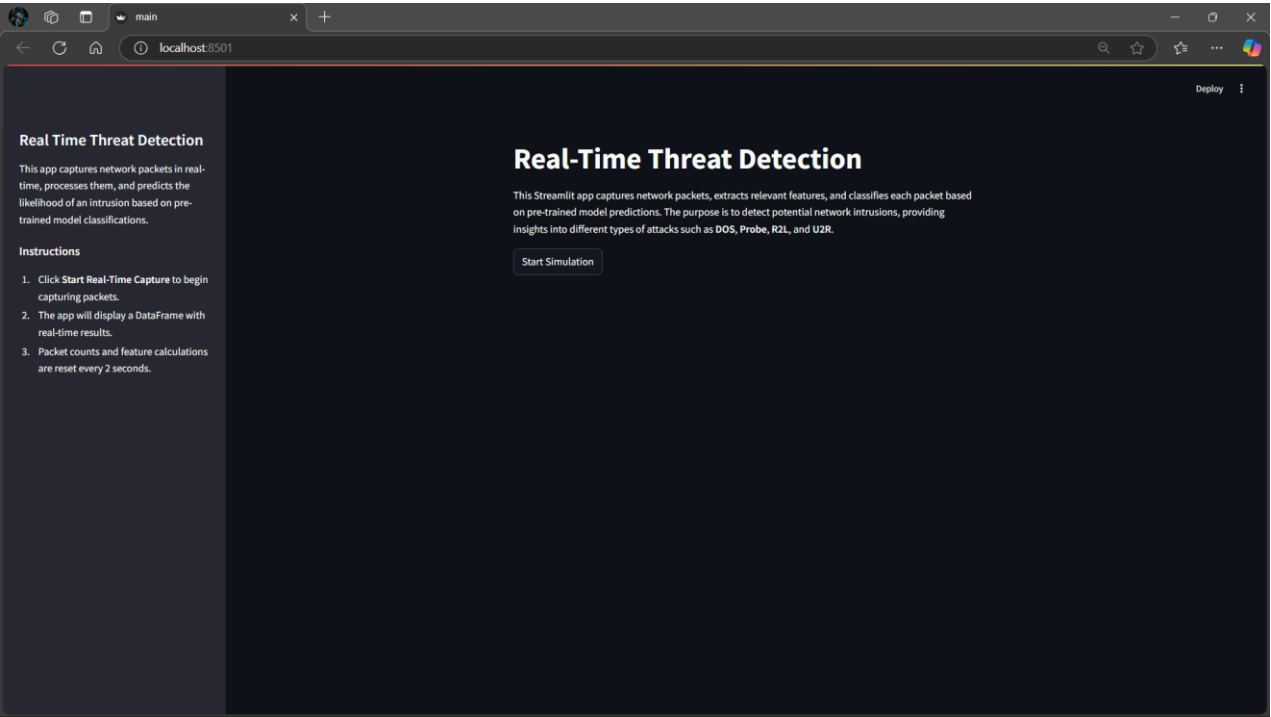
Final Output

Final Output in wide mode

Distribution of Packet Classifications