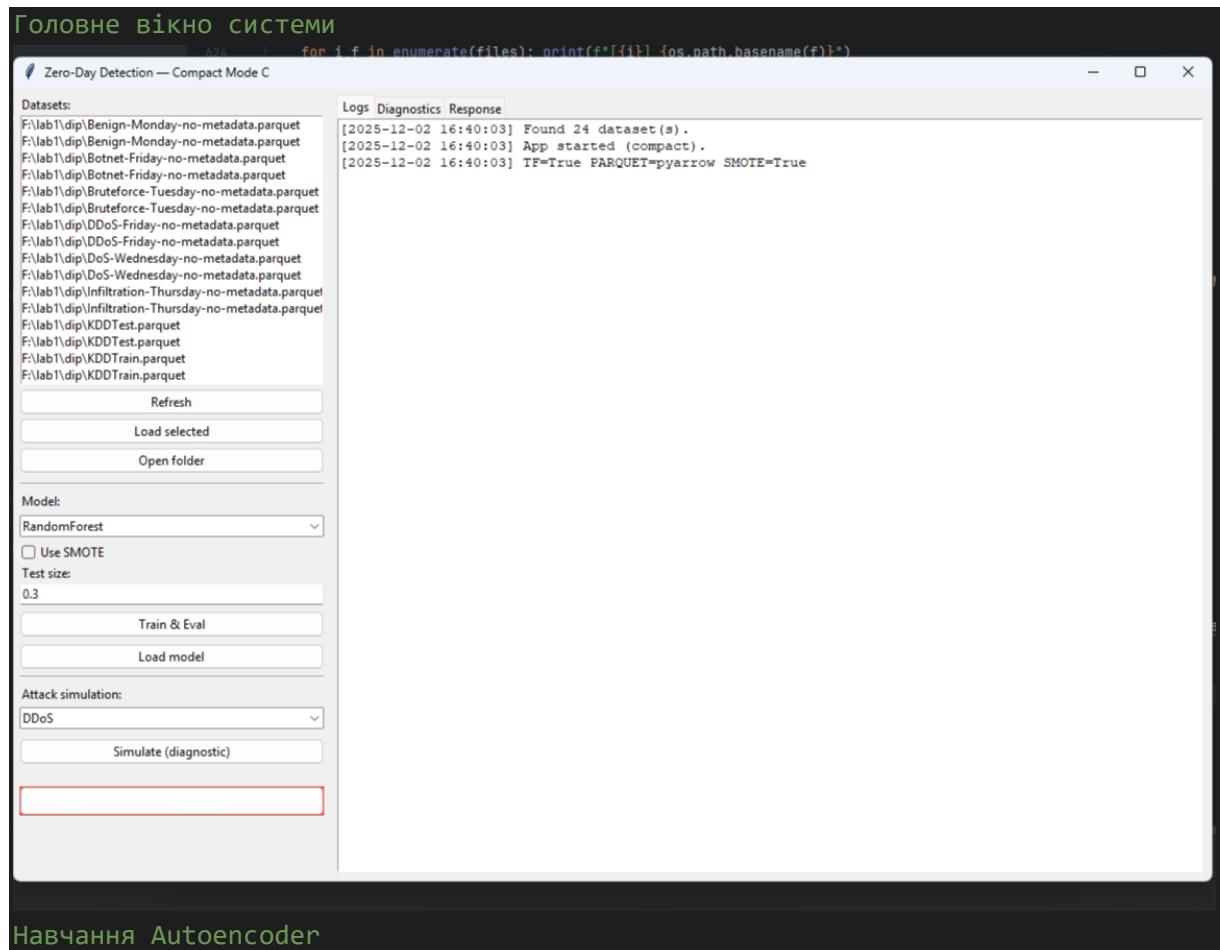


# ДОДАТОК В

## Скріншоти:



Zero-Day Detection

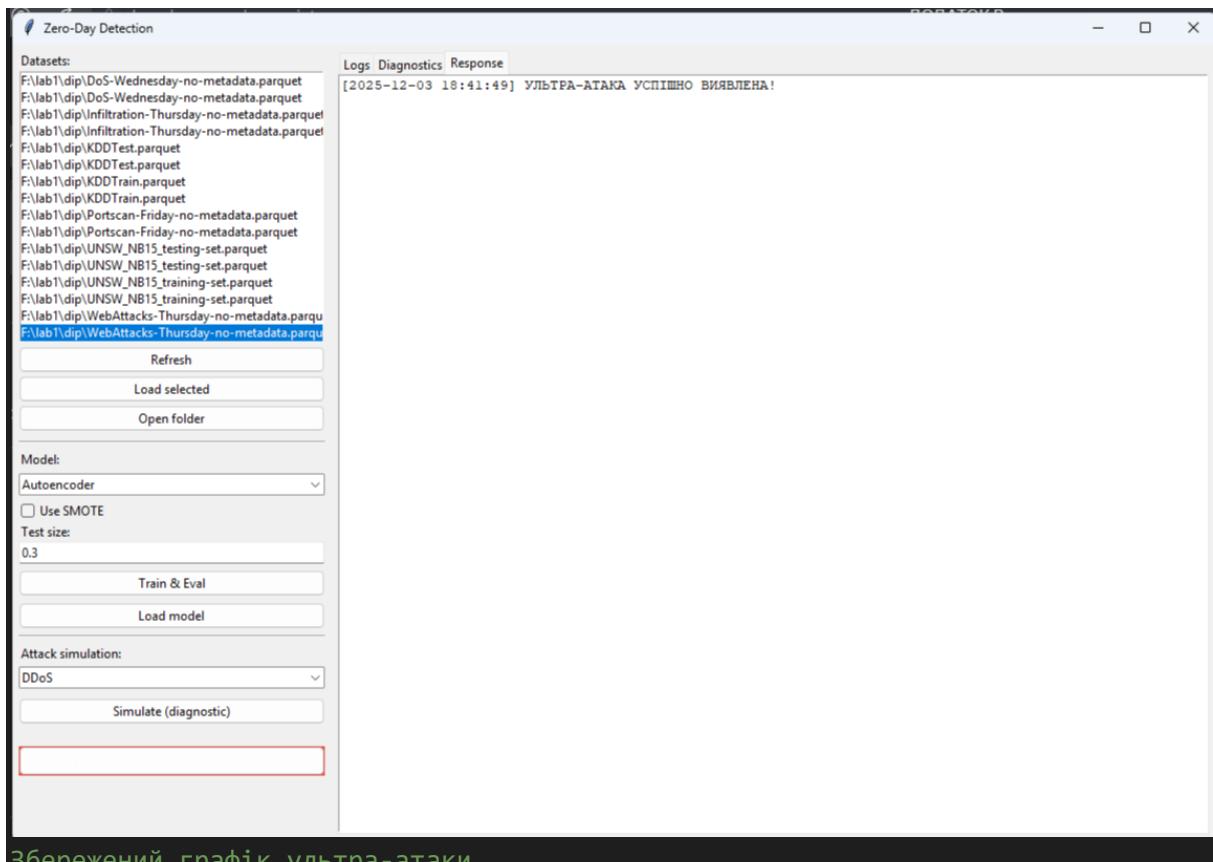
Datasets:	Logs	Diagnostics	Response
F:\lab1\l\l\dip\DoS-Wednesday-no-metadata.parquet	[2025-12-03 18:35:58] App started (compact).		
F:\lab1\l\l\dip\DoS-Wednesday-no-metadata.parquet	[2025-12-03 18:35:58] TF=True PARQUET=pyarrow SMOTE=True		
F:\lab1\l\l\dip\Infiltration-Thursday-no-metadata.parquet	[2025-12-03 18:37:16] Loaded dataset F:\lab1\l\l\dip\Benign-Monday-no-metadata.parquet label=Label		
F:\lab1\l\l\dip\Infiltration-Thursday-no-metadata.parquet	[2025-12-03 18:37:21] Loaded dataset F:\lab1\l\l\dip\Botnet-Friday-no-metadata.parquet label=Label		
F:\lab1\l\l\dip\KDDTest.parquet	[2025-12-03 18:37:22] Loaded dataset F:\lab1\l\l\dip\Botnet-Friday-no-metadata.parquet label=Label		
F:\lab1\l\l\dip\KDDTest.parquet	[2025-12-03 18:37:24] Loaded dataset F:\lab1\l\l\dip\Bruteforce-Tuesday-no-metadata.parquet label=Label		
F:\lab1\l\l\dip\KDDTrain.parquet	[2025-12-03 18:37:27] Loaded dataset F:\lab1\l\l\dip\Bruteforce-Tuesday-no-metadata.parquet label=Label		
F:\lab1\l\l\dip\KDDTrain.parquet	[2025-12-03 18:37:29] Loaded dataset F:\lab1\l\l\dip\DDoS-Friday-no-metadata.parquet label=Label		
F:\lab1\l\l\dip\Portscan-Friday-no-metadata.parquet	[2025-12-03 18:37:31] Loaded dataset F:\lab1\l\l\dip\DDoS-Friday-no-metadata.parquet label=Label		
F:\lab1\l\l\dip\UNSW_NB15_testing-set.parquet	[2025-12-03 18:37:33] Loaded dataset F:\lab1\l\l\dip\DoS-Wednesday-no-metadata.parquet label=Label		
F:\lab1\l\l\dip\UNSW_NB15_testing-set.parquet	[2025-12-03 18:37:34] Loaded dataset F:\lab1\l\l\dip\DoS-Wednesday-no-metadata.parquet label=Label		
F:\lab1\l\l\dip\UNSW_NB15_training-set.parquet	[2025-12-03 18:37:37] Loaded dataset F:\lab1\l\l\dip\Infiltration-Thursday-no-metadata.parquet label=Label		
F:\lab1\l\l\dip\UNSW_NB15_training-set.parquet	[2025-12-03 18:37:38] Loaded dataset F:\lab1\l\l\dip\Infiltration-Thursday-no-metadata.parquet label=Label		
F:\lab1\l\l\dip\UNSW_NB15_training-set.parquet	[2025-12-03 18:37:40] Loaded dataset F:\lab1\l\l\dip\KDDTest.parquet label=class		
F:\lab1\l\l\dip\UNSW_NB15_training-set.parquet	[2025-12-03 18:37:41] Loaded dataset F:\lab1\l\l\dip\KDDTrain.parquet label=class		
F:\lab1\l\l\dip\WebAttacks-Thursday-no-metadata.parquet	[2025-12-03 18:37:43] Loaded dataset F:\lab1\l\l\dip\KDDTrain.parquet label=class		
F:\lab1\l\l\dip\WebAttacks-Thursday-no-metadata.parquet	[2025-12-03 18:37:44] Loaded dataset F:\lab1\l\l\dip\KDDTrain.parquet label=class		
F:\lab1\l\l\dip\WebAttacks-Thursday-no-metadata.parquet	[2025-12-03 18:37:47] Loaded dataset F:\lab1\l\l\dip\Portscan-Friday-no-metadata.parquet label=Label		
F:\lab1\l\l\dip\WebAttacks-Thursday-no-metadata.parquet	[2025-12-03 18:37:49] Loaded dataset F:\lab1\l\l\dip\Portscan-Friday-no-metadata.parquet label=Label		
F:\lab1\l\l\dip\Autoencoder	[2025-12-03 18:37:50] Loaded dataset F:\lab1\l\l\dip\UNSW_NB15_testing-set.parquet label=label		
<input type="checkbox"/> Use SMOTE	[2025-12-03 18:37:51] Loaded dataset F:\lab1\l\l\dip\UNSW_NB15_testing-set.parquet label=label		
Test size: 0.3	[2025-12-03 18:37:53] Loaded dataset F:\lab1\l\l\dip\UNSW_NB15_training-set.parquet label=label		
Train & Eval	[2025-12-03 18:37:55] Loaded dataset F:\lab1\l\l\dip\UNSW_NB15_training-set.parquet label=label		
Load model	[2025-12-03 18:37:56] Loaded dataset F:\lab1\l\l\dip\WebAttacks-Thursday-no-metadata.parquet label=Label		
Model: Autoencoder	[2025-12-03 18:37:58] Loaded dataset F:\lab1\l\l\dip\WebAttacks-Thursday-no-metadata.parquet label=Label		
Attack simulation: DDoS	[2025-12-03 18:38:01] [TRAIN] model=Autoencoder		
Simulate (diagnostic)	[2025-12-03 18:38:17] [RESULTS] { "accuracy": 0.9861806357763231, "precision": 0.0, "recall": 0.0, "f1": 0.0, "roc_auc": NaN, "confusion_matrix": [ [ 46100, 3 ], [ 643, 0 ] ], "ae_threshold": 56.780848777199736 }		

## Симуляція атаки

Zero-Day Detection — Compact Mode C

Datasets:	Logs	Diagnostics	Response
F:\lab1\l\l\dip\Benign-Monday-no-metadata.parquet	[2025-12-02 16:46:34] Actions:		
F:\lab1\l\l\dip\Benign-Monday-no-metadata.parquet	[2025-12-02 16:46:34] - Block source IP range (simulated)		
F:\lab1\l\l\dip\Botnet-Friday-no-metadata.parquet	[2025-12-02 16:46:34] - Enable rate limiting		
F:\lab1\l\l\dip\Bruteforce-Tuesday-no-metadata.parquet	[2025-12-02 16:46:34] - Create firewall DROP rule		
F:\lab1\l\l\dip\Bruteforce-Tuesday-no-metadata.parquet	[2025-12-02 16:46:34]		
F:\lab1\l\l\dip\DDoS-Friday-no-metadata.parquet	[2025-12-02 16:46:34]		
F:\lab1\l\l\dip\DDoS-Friday-no-metadata.parquet	[2025-12-02 16:46:34]		
F:\lab1\l\l\dip\DoS-Wednesday-no-metadata.parquet	[2025-12-02 16:46:34]		
F:\lab1\l\l\dip\DoS-Wednesday-no-metadata.parquet	[2025-12-02 16:46:34]		
F:\lab1\l\l\dip\Infiltration-Thursday-no-metadata.parquet	[2025-12-02 16:46:34]		
F:\lab1\l\l\dip\Infiltration-Thursday-no-metadata.parquet	[2025-12-02 16:46:34]		
F:\lab1\l\l\dip\KDDTest.parquet	[2025-12-02 16:46:34]		
F:\lab1\l\l\dip\KDDTest.parquet	[2025-12-02 16:46:34]		
F:\lab1\l\l\dip\KDDTrain.parquet	[2025-12-02 16:46:34]		
F:\lab1\l\l\dip\KDDTrain.parquet	[2025-12-02 16:46:34]		
F:\lab1\l\l\dip\Autoencoder	[2025-12-02 16:46:34]		
<input type="checkbox"/> Use SMOTE	[2025-12-02 16:46:34]		
Test size: 0.3	[2025-12-02 16:46:34]		
Train & Eval	[2025-12-02 16:46:34]		
Load model	[2025-12-02 16:46:34]		
Model: IsolationForest	[2025-12-02 16:46:34]		
Attack simulation: DDoS	[2025-12-02 16:46:34]		
Simulate (diagnostic)	[2025-12-02 16:46:34]		

УЛЬТРА-ТЕСТ 100% ДЕТЕКТ (червона кнопка)



Збережений графік ультра-атаки

