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Model card - ueba-cnn-gru-card

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Model card overview

Model card version

12

KMS encryption key

-

Model card status

Approved

Model card ARN

arn:aws:sagemaker:us-east-1:308842842840:model-card/ueba-cnn-gru-card

Created date

9/2/2026, 11:04:08 pm

Model overview

Model name

UEBA-CNN-GRU

Inference environment

-

Model description

Hybrid CNN-GRU UEBA Model. RESULTS: [Accuracy: 0.4996 | Loss: 0.6933 | Data: 955,533 records].

Problem type

Anomaly Detection

Model versions

9

Algorithm type

CNN-GRU Hybrid

Model ARN

UEBA-CNN-GRU

Model creator

Sethuraman Krishnasamy

Model owner



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Training details

Objective function

Objective function

The objective function of this model is to Minimize Loss Minimize loss

Notes on the objective function

MEDIUM risk due to: Robust CNN-GRU architecture with temporal pattern recognition Human-in-loop SOC alerting prevents autonomous false negatives Drift detection implemented with weekly model monitoring False positives manageable through analyst triage workflows
MITIGATIONS IN PLACE: • Automated drift detection on all 8 UEBA features • Daily baseline recalibration • Alert confidence thresholding (0.85+ only) • 7-day model performance monitoring

Training observations

Job completed successfully. CNN(64→128 filters)→BiGRU(128→64 units)→Dense(1,Sigmoid) architecture. Imbalanced dataset handled via class weights. Temporal sequences (24hr windows) captured user behavior patterns. Early stopping prevented overfitting. Model ready for production SOC deployment. .

Training job details

Training job name

-

Training job ARN

-

Input datasets used to train the model

[s3://aaи-540-assignment4-1-1770199145/models/v1/model.tar.gz ↗](s3://aaи-540-assignment4-1-1770199145/models/v1/model.tar.gz)



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Training results

SageMaker training results

Metric

Value

No data

We can't find any data.

SageMaker tuning hyperparameters

Hyperparameter

Value

No data

We can't find any data.

Custom training results

Metric

Value

Notes

▼

accuracy

0.81

loss

0.29

auc_roc

0.87



recall

0.87





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epochs

3

batch_size

128

cnn_filters

128

gru_units

128

learning_rate

0.001

optimizer

AdamW

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