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## Model card - ueba-cnn-gru-card

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### Model card overview

Model card version

12

Model card status

Approved

Created date

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

KMS encryption key

-

Model card ARN

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

### Model overview

Model name

UEBA-CNN-GRU

Model description

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

Model versions

9

Model ARN

UEBA-CNN-GRU

Inference environment

-

Problem type

Anomaly Detection

Algorithm type

CNN-GRU Hybrid

Model creator

Sethuraman Krishnasamy

Model owner

CloudShell

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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://aai-540-assignment4-1-1770199145/models/v1/model.tar.gz>





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## Training results

### SageMaker training results

Metric	Value
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**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
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accuracy	0.81	
loss	0.29	
auc_roc	0.87	

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recall	0.87
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Tutorials

Documentation

epochs	3
batch_size	128
cnn_filters	128
gru_units	128
learning_rate	0.001
optimizer	AdamW



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