

IBM LinuxONE™ and AI SOLVING FRAUD SCENARIOS IN REAL TIME

Highlights



- With IBM LinuxONE, process up to 3.5 million inference requests per second with 1ms response time using a Credit Card Fraud Detection model.



- With IBM LinuxONE, process up to 300 billion inference requests per day with 1ms response time using a Credit Card Fraud Detection model.

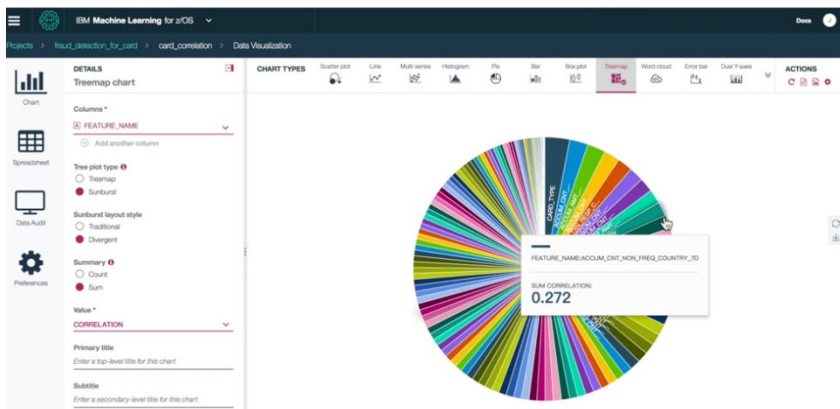


- IBM LinuxONE with its real-time inferencing capabilities is designed to help prevent fraud

Fraud poses a significant risk to businesses and end customers. Fraud can occur across various industries including but not limited to Credit Cards, Healthcare, Payments, Financial services, Government, Insurance. Using a scalable and consistent AI solution to detect, prevent and address fraud can help reduce this risk. Determine business insights during transactions using IBM LinuxONE Emperor 4™, harnessing the scalability and speed needed to address these challenges.

The cost of fraud continues to grow and impact businesses. Global Credit Card fraud is expected to reach \$35 billion by 2025. Since the beginning of the COVID-19 pandemic, 40% of financial services firms saw an increase in fraudulent activity. COVID-19 has also worsened the false positive cases for over two-thirds of the institutions

See Fraud, Stop Fraud






- Speed, Efficiency & Accuracy – Make fast decisions, use resources judiciously and make accurate predictions with Snap ML
- Train anywhere deploy on IBM LinuxONE – Train the model on Public Clouds, Private clouds, On-Premises but deploy them on the IBM LinuxONE platform

- Enhanced Model Accuracy – Schedule periodic re-evaluations of new data to monitor model accuracy over time and receive alerts when performance deteriorates
- Enterprise-ready AI model deployment- Operationalize models within transactional applications to enable real-time insight. Choose from several scoring approaches, including RESTful APIs, Java™ and CICS® integration, optimized for the highest performance.

| Account information | Operation information | Lag attributes |
|---|--|--|
| 100 **** 2222 Account balance Transaction History | Country: United Kingdom Channel: Business Online Interchange organization: VV Card type: Magnetic | Transaction amount in high risk country in last 1 day: 1284.3 Transaction count in high risk country in last 1 day: 5 Number of failed transaction in last 1 day: 2 Number of failed transaction in last month: 3 Average transaction amount in last month: 90.6 |

Advantages

- 
 Flexible and scalable platform to deploy fraud models and data
- 
 Score all transactions and leave none behind yet meet all stringent SLAs
- 
 Detect fraud, adapt more dynamically to all types of fraud and deter fraud in real-time
- 
 Proven customer stories of detecting more fraud resulting in cost savings



IBM Snap ML



ONNX &



IBM Deep Learning Compiler (DLC)

Snap ML

Scalable, low latency inference using Integrated Accelerator for AI

AI on IBM LinuxONE fraud solution

Infuse AI into every business transaction with SLA < 5 ms and > 10K TPS



Real-time fraud detection on IBM LinuxONE

Deep Learning Compiler and ONNX

Enables multiple Deep Learning Frameworks

IBM LinuxONE Optimized for TensorFlow

Delivers acceleration in an industry standard serving environment

Help prevent Credit Card fraud, payment fraud, claims fraud, healthcare fraud, government fraud and many more.