

IBM LinuxONE™ and AI

IMAGE AND NATURAL LANGUAGE PROCESSING

Highlights



- Achieve low latency inferencing on your transactions with the first-in-industry integrated accelerator on IBM LinuxONE



- Achieve high throughput while analyzing real-time transactions with IBM LinuxONE's on chip AI accelerator



- Design and deploy AI applications on IBM LinuxONE, a platform optimized for AI inferencing that supports industry leading open-source tooling and frameworks

Image processing and Natural Language processing form a very important subfield of machine learning. This gives rise to interesting areas like speech recognition, voice generation, auto generating reports, conversational chatbots and many more. Activities like processing images to train AI models can be a very resource intensive task and very energy consuming

Using AI applications and frameworks running on IBM LinuxONE, not only achieve energy efficiency and green AI, but also get uncompromised model accuracy and very low latency for integrating inferencing into transaction processing and data serving applications where fast response times matter.

Go green and yet be efficient



- 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 other integration, optimized for the highest performance.

- Enhanced Model Accuracy – Schedule periodic re-evaluations of new data to monitor model accuracy over time and receive alerts when performance deteriorates
- Train anywhere deploy on IBM LinuxONE – Train the model on Public Clouds, Private clouds, On-Premises but deploy them on IBM LinuxONE platform for low latency and better performance



Advantages

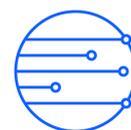
-  Flexible and scalable platform to deploy fraud models and data
-  Score all transactions and leave none behind yet meet all stringent SLAs
-  Detect patterns in your applications, adapt more dynamically to different types of images across industries
-  Go green with lesser energy consumption by training models on LinuxONE



 PyTorch



ONNX &



IBM
Deep Learning
Compiler (DLC)

LinuxONE

Model training and deployment

AI on IBM LinuxONE solution

On chip accelerator for real-time inferencing


Image recognition
and Natural Language
Processing on IBM
LinuxONE

Deep Learning Compiler and ONNX

Enables multiple Deep Learning Frameworks

PyTorch on IBM LinuxONE

Delivers acceleration in an industry standard serving environment

Disclaimers: Cited by a third-party industry analyst.
AI on IBM LinuxONE supports PyTorch, TensorFlow, Keras, Anaconda, Spark, and others.
The integrated accelerator for AI is available on LinuxONE Emperor 4™.