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Data Analytics at the Tactical Edge

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Abstract:

When it comes to AI & ML we all have grandiose ideas of what this future looks like, and we can all agree a future with more C-3PO, and less Agent Smith is ideal. Until reality catches up to science fiction we are bottlenecked by our compute capabilities. These limitations, coupled with data storage capacity, are compounded even more so at the tactical edge.

Splunk has been providing machine learning at the tactical edge since 2015 via our Machine Learning Toolkit (MLTK), and Data Science and Deep Learning (DSDL) since 2020. Deploying Splunk at the tactical edge allows users to leverage prebuilt containers for TensorFlow, PyTorch, and various data science, NLP, and machine learning libraries. Using predefined Jupyter Lab Notebooks workflows, DSDL enables rapid model development, testing, and deployment all within Splunk. You can even leverage GPUs for intensive training tasks and deploy models on CPU or GPU containers.

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