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NVIDIA DIGITS

Interactive Deep Learning GPU Training System

The NVIDIA Deep Learning GPU Training System (DIGITS) puts the power of deep learning (/deep-learning) into the hands of engineers and data scientists. DIGITS can be used to rapidly train the highly accurate deep neural network (DNNs) for image classification, segmentation and object detection tasks.

DIGITS simplifies common deep learning tasks such as managing data, designing and training neural networks on multi-GPU systems, monitoring performance in real time with advanced visualizations, and selecting the best performing model from the results browser for deployment. DIGITS is completely interactive so that data scientists can focus on designing and training networks rather than programming and debugging.

DIGITS Download

DIGITS is available as a free download to the members of the NVIDIA Developer Program. If you are not already a member, clicking "Download" will ask you join the program.

Download (/rdp/form/digits-download-survey)

NVIDIA GPU Cloud

DIGITS is available on NVIDIA GPU Cloud (NGC) as an optimized container for on-demand usage. Sign-up for an NGC account and get started with DIGITS in minutes. Visit NVIDIA GPU Cloud (https://www.nvidia.com/en-us/gpu-cloud/) page to learn more.

Sign-up for NGC (http://www.nvidia.com/ngcsignup)

What's New in DIGITS 6

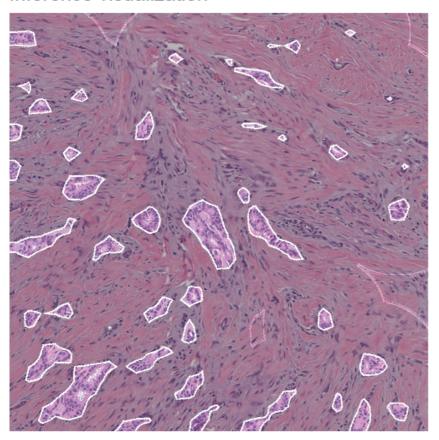
- Interactively train models using TensorFlow and visualize model architecture using TensorBoard
- Integrate custom plug-ins for importing special data formats such as DICOM used in medical imaging
- Pre-trained UNET model added to the DIGITS model store for image segmentation of medical images

Learn more about DIGITS 6:

• Getting Started TensorFlow™ in DEVELOPER (https://github.com/NVIDIA/DIGITS/pyp/master/docs/GettingStarted PensorFlow™ in Developer (https://github.com/NVIDIA/DIGITS/pyp/master/docs/GettingStarted PensorFlow (https://github.com/NVIDIA/DIGITS/pyp/master/docs/GettingStarted PensorFlow (https://github.com/NVIDIA/DIGITS/pyp/master/docs/GettingStarted PensorFlow (https://github.com/NVIDIA/DIGITS/pyp/master/docs/GettingStarted (https://github.com/NVIDIA/DIGITS/pyp/master/docs/GettingStarted (https://github.com/NVID

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Inference visualization



Class #1

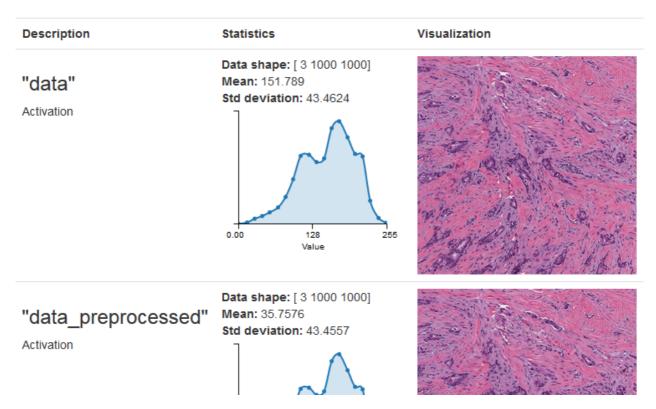
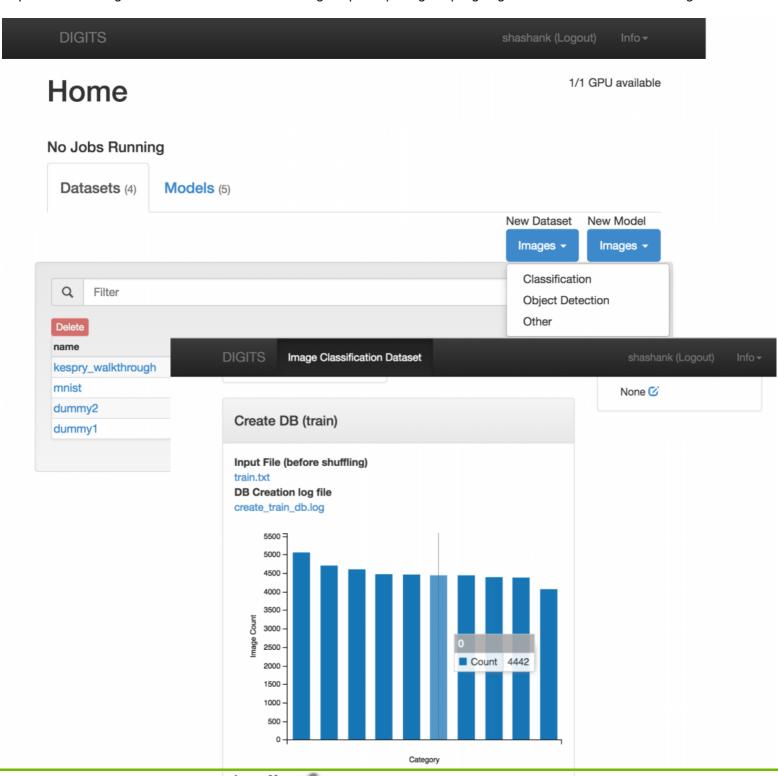


Image segmentation neural network trained with DIGITS to partition epithelium regions that contribute to identification of tumor

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- Design, train and invaline deep neural networks for image classification, segmentation and object detection using Garre, Torch and Tensor Flow
 ... ACCOUNT (/LOGIN)
- Download pre-trained models such as AlexNet, GoogLeNet, LeNet and UNET from the DIGITS Model
 Store
- · Perform hyperparameter sweep of learning rate and batch size for improved model accuracy
- Schedule, monitor, and manage neural network training jobs, and analyze accuracy and loss in real time
- Import a wide variety of image formats and sources with DIGITS plug-in
- Scale training jobs across multiple GPUs automatically

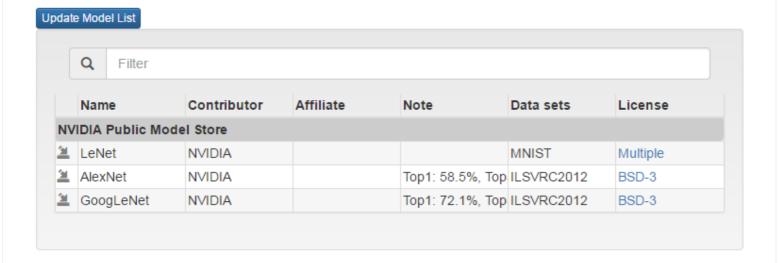
DIGITS is an open source project. Customize and extend DIGITS to suit your applications and share your experience using DIGITS on the DIGITS user group (https://groups.google.com/forum/#!forum/digits-users).



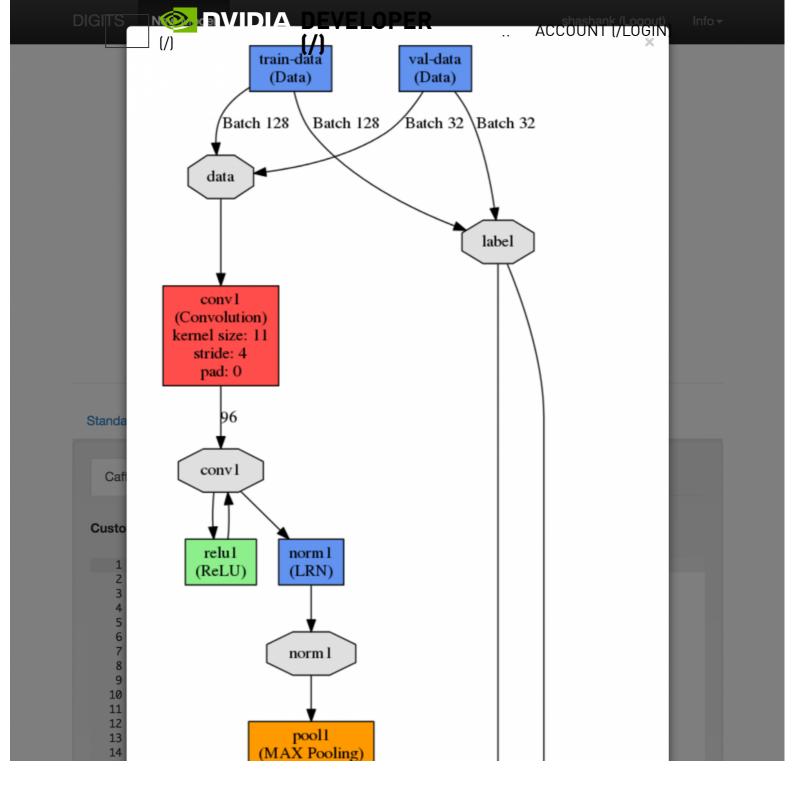
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Model Store

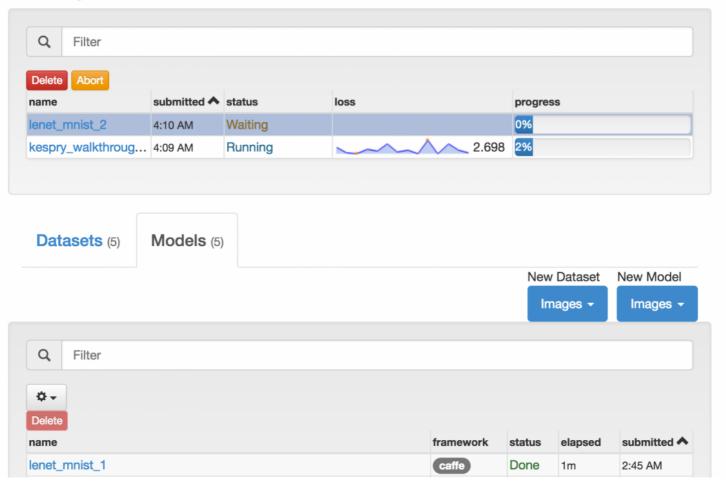


Download pre-trained models such as AlexNet, GoogLeNet and others from the DIGITS Model Store

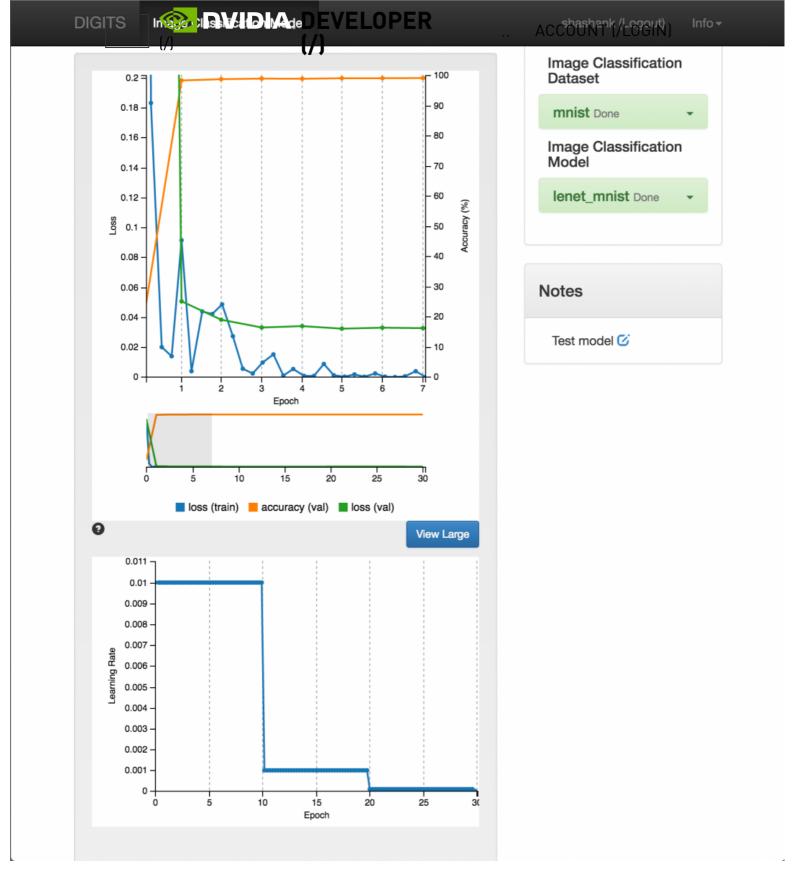


Visualize deep neural network architectures

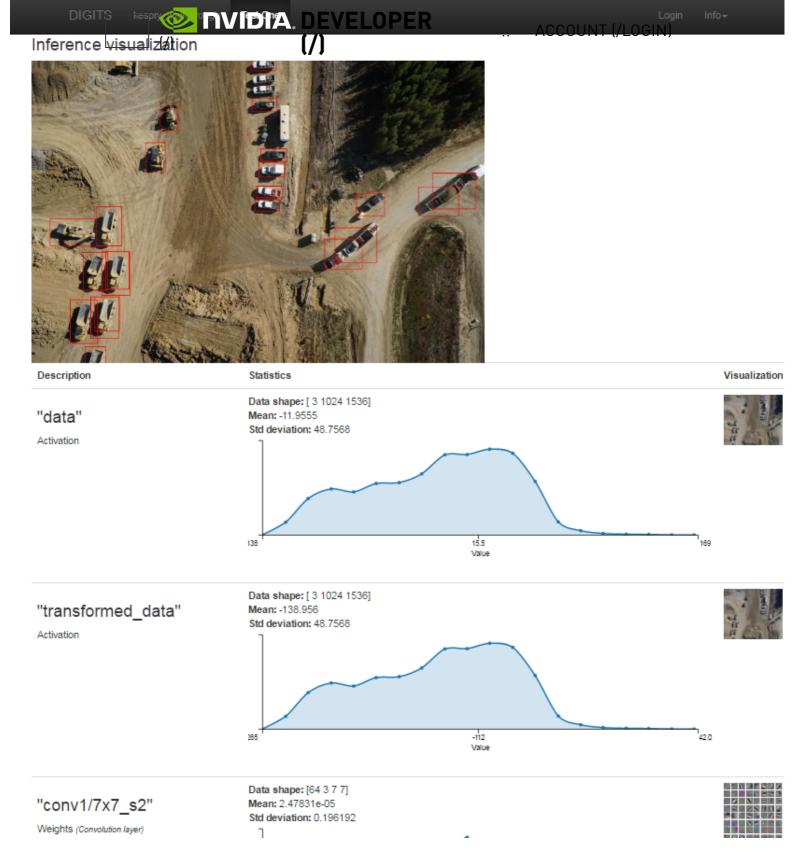
Running Jobs (2)



Schedule, monitor, and manage neural network training jobs



Analyze accuracy and loss in real time



Visualization of inference results

References:

Learn more about GPU-accelerated machine learning (http://www.nvidia.com/object/machine-learning.html) and deep learning (/deep-learning) technologies in these blog posts:

- Image Segmentation using DICITS 5 (https://devblogs.nvidia.com/parallelforall/image-segmentation NVIDIA websites use cookies to deliver and improve the website experience. See our cookie policy (https://www.nvidia.com/en-us/about-nvidia/cookie-policy/) for further details on how we ACCEPT use cookies and how to change your cookie settings.

- Deep Learning for Detection with DESTS (here://devblogs.nvidia.com/parallelforall/deep-learning-object_perection-digits/) ... ACCOUNT (/LOGIN)
- DetectNet: Deep Neural Network for Object Detection in DIGITS
 (https://devblogs.nvidia.com/parallelforall/detectnet-deep-neural-network-object-detection-digits/)
- Easy Multi-GPU Deep Learning with DIGITS 2 (http://devblogs.nvidia.com/parallelforall/easy-multi-gpu-deep-learning-digits-2)
- Introduction to Deep Learning with DIGITS webinar recording (http://on-demand.gputechconf.com/gtc/2015/webinar/gtc-express-digits-webinar.mp4)
- DIGITS: Deep Learning GPU Training System (http://devblogs.nvidia.com/parallelforall/digits-deep-learning-gpu-training-system)
- Accelerate Machine Learning with the cuDNN Deep Neural Network Library
 (http://devblogs.nvidia.com/parallelforall/accelerate-machine-learning-cudnn-deep-neural-network-library/)
- Deep Learning for Computer Vision with Caffe and cuDNN
 (http://devblogs.nvidia.com/parallelforall/deep-learning-computer-vision-caffe-cudnn/)

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About CUDA (/about-cuda)

Parallel Computing (/accelerated-computing-training)

CUDA Toolkit (/cuda-toolkit)

CUDACasts (http://www.youtube.com/playlist?list=PL5B692fm6--vScfBaxgY89IRWFzDt0Khm)

LEARN MORE

Training and Courseware (/cuda-education-training)

Tools and Ecosystem (/tools-ecosystem)

Academic Collaboration (/higher-education-and-research)

Documentation (http://docs.nvidia.com/cuda/index.html)

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Developer Blog (http://devalegoovidiescan/de





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