Shaastra Hackathon Models

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Title	Tutorial full link	Pre-trained model link	Dataset link										
2	Object detection - SSD	https://github.com/zackchase/mxnet-the-straight-dope/blob/master/chapter08_computer-vision/object-detection.ipynb	https://s3.amazonaws.com/mxnet-artifacts/mxnet-object-detectors/ssd_resnet50_300-0239.params https://s3.amazonaws.com/mxnet-artifacts/mxnet-object-detectors/ssd_resnet50_300-symbol.json	https://host.robots.ox.ac.uk/pascal/VOC/										
3	Hot dog Classifier	https://github.com/zackchase/mxnet-the-straight-dope/blob/master/chapter08_computer-vision/fine-tuning.ipynb	VGG Squeezenet to fine-tune: http://data.dmlc.ml/mxnet/models/imagenet/squeezenet/	http://image-net.org/download										
4	Cat vs. Dog	https://github.com/dmlc/mxnet-notebooks/blob/master/python/tutorials/finetune-CNN-catsvsdogs.ipynb	Sunil Mallya pretrained model available?https://s3.amazonaws.com/smallya-test/dc-models/resnet-mxnet-catsvsdogs-symbol.json https://s3.amazonaws.com/smallya-test/dc-models/resnet-mxnet-catsvsdogs-0005.params	http://image-net.org/download										
5	Universal Style Transfer	https://github.com/bckenstler/wct-mxnet/blob/master/WCT.ipynb	https://s3.amazonaws.com/wct-style-transfer/decoder_1-16000.params https://s3.amazonaws.com/wct-style-transfer/decoder_2-16000.params https://s3.amazonaws.com/wct-style-transfer/decoder_3-16000.params https://s3.amazonaws.com/wct-style-transfer/decoder_4-16000.params https://s3.amazonaws.com/wct-style-transfer/decoder_5-16000.params https://s3.amazonaws.com/wct-style-transfer/decoder_1-symbol.json https://s3.amazonaws.com/wct-style-transfer/decoder_2-symbol.json https://s3.amazonaws.com/wct-style-transfer/decoder_3-symbol.json https://s3.amazonaws.com/wct-style-transfer/decoder_4-symbol.json https://s3.amazonaws.com/wct-style-transfer/decoder_5-symbol.json https://s3.amazonaws.com/wct-style-transfer/vgg19_bn-0000.params https://s3.amazonaws.com/wct-style-transfer/vgg19_bn-symbol.json	Content: http://cocodataset.org/#download Style: https://www.kaggle.com/c/painter-by-numbers										
6	Action Recognition	https://github.com/bckenstler/action-recognition-mxnet/blob/master/Squeezenet%20Transfer%20Learning%20for%20Action%20Recognition.ipynb	https://s3.amazonaws.com/action-recognition-mxnet/action_recognition_v2.0-0000.params https://s3.amazonaws.com/action-recognition-mxnet/action_recognition_v2.0-symbol.json	http://crcv.ucf.edu/data/UCF101.php										
7	License Plate	https://github.com/bckenstler/deepANPR-mxnet/blob/master/deepANPRtutorial.ipynb https://github.com/bckenstler/deepANPR-mxnet/blob/master/deep_anpr_utils.py	https://s3-us-west-1.amazonaws.com/deep-anpr/deep_anpr_params	Background: http://vision.princeton.edu/projects/2010/SUN/SUN397.tar.gz Images generated										
8	Geo location	no training; Prediction script on Lambda: https://github.com/awslabs/mxnet-lambda/tree/geoloc	N/A	https://aws.amazon.com/public-datasets/multimedia-commons/										
9	Head Pose	https://github.com/araitats/HeadPose	1:1 Aspect Ratio: https://s3-us-west-2.amazonaws.com/headpose111017/models/MXNetModel/Res50_1to1/122817/res50_SQ_3x3-0000.params https://s3-us-west-2.amazonaws.com/headpose111017/models/MXNetModel/Res50_1to1/122817/res50_SQ_3x3-symbol.json 16:9 Aspect Ratio: https://s3-us-west-2.amazonaws.com/headpose111017/models/MXNetModel/Res50_16f9/122817/res50_169_3x3-0000.params https://s3-us-west-2.amazonaws.com/headpose111017/models/MXNetModel/Res50_16f9/122817/res50_169_3x3-symbol.json	Dataset 1: http://www.prima.inrialpes.fr/perso/Gourier/Faces/HPDatabase.html Dataset 2: http://data.vision.ee.ethz.ch/cvl/gfanelli/kinect_head_pose_db.tgz										
10	Ultrasound Nerve Segmentation	https://github.com/bckenstler/unet-nerve-segmentation-mxnet/blob/master/U-Net%20MXNet.ipynb	https://s3.amazonaws.com/unet-nerve-segmentation-0039.params https://s3.amazonaws.com/unet-nerve-segmentation-symbol.json	https://www.kaggle.com/c/ultrasound-nerve-segmentation										
11														
12	Fashion MNIST	https://github.com/sunilmallya/dl-twitch-series/blob/master/E3_image_recognition_clothing_detector.ipynb	Sunil Mallya pretrained model available?	train labels: http://fashion-mnist.s3-website.eu-central-1.amazonaws.com/train-labels-idx1-ubyte.gz train images: http://fashion-mnist.s3-website.eu-central-1.amazonaws.com/train-images-idx3-ubyte.gz validation labels: http://fashion-mnist.s3-website.eu-central-1.amazonaws.com/t10k-labels-idx1-ubyte.gz validation images: http://fashion-mnist.s3-website.eu-central-1.amazonaws.com/t10k-images-idx3-ubyte.gz										
13	KERAS MODELS													
14	Mobile Nets		https://github.com/titu1994/MobileNetworks											
15	Super Resolution		https://github.com/titu1994/Super-Resolution-using-Generative-Adversarial-Networks											
16	Image to text - Image captioning		repo: https://github.com/tensorflow/models/tree/master/research/im2txt model? https://github.com/tensorflow/models/issues/466#issuecomment-254002990											
17	Music classification		https://github.com/keunwoochoi/music-auto_tagging-keras											

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18														
19														
20	**Image Datasets**													
21	Plant Seedling: https://vision.eng.au.dk/plant-seedlings-dataset/													
22	Leaf data: https://www.kaggle.com/c/leaf-classification/data													
23	Fisheries: https://www.kaggle.com/c/the-nature-conservancy-fisheries-monitoring/data													
24	House Numbers: http://ufldl.stanford.edu/housenumbers/													
25	Motion Capture: http://mocap.cs.cmu.edu/													
26	Scene subset: http://wwwyf.io/p/lsun													
27	10k US Adult Faces Database													
28	2GB of Photos of Cats or Archive version													
29	Adience Unfiltered faces for gender and age classification													
30	Affective Image Classification													
31	Animals with attributes													
32	Caltech Pedestrian Detection Benchmark													
33	Chars74K dataset, Character Recognition in Natural Images (both English and Kannada are available)													
34	Face Recognition Benchmark													
35	Flickr: 32 Class Brand Logos													
36	GDXray: X-ray images for X-ray testing and Computer Vision													
37	ImageNet (in WordNet hierarchy)													
38	Indoor Scene Recognition													
39	International Affective Picture System, UFL													
40	Massive Visual Memory Stimuli, MIT													
41	MNIST database of handwritten digits, near 1 million examples													
42	Several Shape-from-Silhouette Datasets													
43	Stanford Dogs Dataset													
44	SUN database, MIT													
45	The Action Similarity Labeling (ASLAN) Challenge													
46	The Oxford-IIIT Pet Dataset													
47	Violent-Flows - Crowd Violence Non-violence Database and Benchmark													
48	Visual genome													
49	YouTube Faces Database													
50	More dataset links:													
51	https://www.quora.com/Where-can-I-find-large-datasets-open-to-the-public													