Project number	TA	Project Name	Scope	Link
1	Sireesha	Summpip		https://dl.acm.org/doi/abs/10.1145/3397271.3401327?casa_token=218dLxb2gB0AAAAA:qjbtQYW8qZiAgcEefI6HSUhv3mkYiDH5u74c69mxDHOJFnrGBV1tX7Dmiuk4xWF8lWL-331-ET-Y
2	Sireesha	Aspect based sentiment analysis with gated convolution networks		https://arxiv.org/pdf/1805.07043.pdf
3	Sireesha	A hierarchical model of reviews for aspect based sentiment analysis		https://arxiv.org/pdf/1609.02745.pdf
4	Sireesha	Similarity-Aware Deep Attentive Model for Clickbait Detection		https://link.springer.com/chapter/10.1007/978-3-030-16145-3_5
5	Sireesha	MAGNET:Multi-Label Text Classification using Attention-based Graph Neural Network		https://arxiv.org/abs/2003.11644
6	Jeet	SoftTriple Loss: Deep Metric Learning Without Triplet Sampling		https://arxiv.org/pdf/1909.05235v2.pdf
7	Jeet	Unsupervised Domain Adaptation by Backpropagation		https://arxiv.org/pdf/1409.7495v2.pdf
8	Jeet	Knowledge Distillation: A Survey	feature based	https://arxiv.org/abs/2006.05525, https://github.com/peterliht/knowledge-distillation-pytorch
9	Jeet	How To Train Your Deep Multi-Object Tracker	implementating deep hungarian network alongwith syn	https://arxiv.org/pdf/1906.06618.pdf , https://github.com/sharathadavanne/hungarian-net
10	Jeet	Improved Regularization of Convolutional Neural Networks with Cutout	Cutout and MixUp augmentation.	https://arxiv.org/pdf/1708.04552v2.pdf
11	Sriram	LeNet 5 - Implementation Without AutoGrad Tools		http://yann.lecun.com/exdb/publis/pdf/lecun-01a.pdf
12	Sriram	Img2Mol		https://doi.org/10.26434/chemrxiv.14320907.v1
13	Sriram	CDDD - Continuous Descriptors for Molecules		https://doi.org/10.26434/chemrxiv.6871628.v1
14	Sriram	Efficient Multi-Objective Molecular Optimization in a Continuous Latent Space		https://doi.org/10.1039/C9SC01928F
15	Sriram	Generating Focused Molecule Libraries for Drug Discovery with Recurrent Neural Networks		https://doi.org/10.1021/acscentsci.7b00512
16	Ritvik	Character-level Convolutional Networks for Text Classification		https://arxiv.org/pdf/1509.01626.pdf
17	Ritvik	Sentiment Analysis on Movie Review Data Using Machine Learning Approach		https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=9084046
18	Ritvik	Generating Sequences With Recurrent Neural Networks		https://arxiv.org/pdf/1308.0850.pdf
19	Avani	Distilling the Knowledge in a Neural Network		https://arxiv.org/pdf/1503.02531.pdf
20	Avani	Interpretability Beyond Feature Attribution: Quantitative Testing with Concept Activation Vectors (TCAV)		https://arxiv.org/abs/1711.11279
21	Avani	Shortcut Learning in Deep Neural Networks		https://arxiv.org/abs/2004.07780
22	Avani	Deep Image prior		https://arxiv.org/abs/1711.10925
23	Avani	Learning to Protect Communications with Adversarial Neural Cryptography		https://arxiv.org/abs/1610.06918
24	Varun	Grad-CAM: Visual Explanations from Deep Networks via Gradient-based Localization		https://ieeexplore.ieee.org/document/8237336
25	Varun	Explaining and Harnessing Adversarial Examples		https://arxiv.org/pdf/1412.6572.pdf
26	Varun	Adding Attentiveness to the Neurons in Recurrent Neural Networks		https://openaccess.thecvf.com/content_ECCV_2018/papers/Pengfei_Zhang_Adding_Attentiveness_to_ECCV_2018_paper.pdf
27	Varun	Distilling Knowledge via Knowledge Review		https://openaccess.thecvf.com/content/CVPR2021/papers/Chen_Distilling_Knowledge_via_Knowledge_Review_CVPR_2021_paper.pdf
28	Varun	Deep Boosting for Image Denoising		https://openaccess.thecvf.com/content_ECCV_2018/papers/Chang_Chen_Deep_Boosting_for_ECCV_2018_paper.pdf
29	Sarath	Supervised contrastive learning for classification	Improving classification using feature learning on a sim	https://arxiv.org/abs/2004.11362
30	Sarath	Domain Generalization through gradient methods	Impliment a gradient based method to improve DG on t	https://arxiv.org/abs/1710.03077
31	Sarath	Comparing indipendent and joint modelling of labels, on medical data	Run experimets to show the efficacy of joint modelling	https://arxiv.org/abs/1901.07031
32	Sarath	Visualizing neural loss curves with filter norms	Impliment two diff loss curve visualization methods in t	https://proceedings.neurips.cc/paper/2018/file/a41b3bb3e6b050b6c9067c67f663b915-Paper.pdf
33	Sarath	Beyond uniform convergence for generalization	Prove the frobenius norm hypothesis presented in the p	https://arxiv.org/pdf/1805.12076.pdf
34	Sarath	Study a binary convex network on a simple data and compare with neural network and RBF kernal SVM	Implimet conex neural network on binary modified MNI	https://2021.ecmlpkdd.org/wp-content/uploads/2021/07/sub_698.pdf