**Topic wise ML and DL research**

* [Multitask learning](https://github.com/SimonVandenhende/Awesome-Multi-Task-Learning)
* [Self supervised learning](https://github.com/jason718/awesome-self-supervised-learning)
* [Semi supervised learning](https://github.com/yassouali/awesome-semi-supervised-learning)
* [Adversarial ML](https://github.com/yenchenlin/awesome-adversarial-machine-learning)
* [Architecture Search](https://github.com/markdtw/awesome-architecture-search)
* [Contrastive self supervised learning](https://github.com/asheeshcric/awesome-contrastive-self-supervised-learning)
* [Zero shot learning](https://github.com/WilliamYi96/Awesome-Zero-Shot-Learning)
* [One shot learning](https://awesomeopensource.com/projects/one-shot-learning)
* [Few shot learning](https://github.com/e-271/awesome-few-shot-learning)
* [Siamese networks](https://awesomeopensource.com/projects/siamese-network)
* [Contrastive learning](https://github.com/VainF/Awesome-Contrastive-Learning)
* [Visual transformers](https://github.com/dk-liang/Awesome-Visual-Transformer)
* [Transformers for vision](https://github.com/lijiaman/awesome-transformer-for-vision)
* [Transformers](https://github.com/ictnlp/awesome-transformer)
* [OpenSetRecognition list](https://github.com/iCGY96/awesome_OpenSetRecognition_list)
* [Incremental learning](https://github.com/xialeiliu/Awesome-Incremental-Learning)
* Meta Learning
  + [Meta learning 1](https://github.com/dragen1860/awesome-meta-learning)
  + [Meta learning 2](https://github.com/sudharsan13296/Awesome-Meta-Learning)
* [Deep learning uncertainty](https://github.com/ahmedmalaa/deep-learning-uncertainty)
* [Semantic segmentation](https://github.com/mrgloom/awesome-semantic-segmentation)
* Long tailed recognition/learning
  + [Long tailed recognition 1](https://github.com/zzw-zwzhang/Awesome-of-Long-Tailed-Recognition)
  + [Long tailed recognition 2](https://github.com/Stomach-ache/awesome-long-tailed-learning)
  + [Long tailed recognition 3](https://github.com/Vanint/Awesome-LongTailed-Learning)
* [Image matting](https://github.com/michaelowenliu/awesome-image-matting)
* [Image inpainting](https://github.com/1900zyh/Awesome-Image-Inpainting)
* [Conformal predictions](https://github.com/valeman/awesome-conformal-prediction)
* [Scene understanding](https://github.com/bertjiazheng/awesome-scene-understanding)
* Panoptic Segmentation
  + [Panoptic Segmentation 1](https://github.com/Angzz/awesome-panoptic-segmentation)
  + [Panoptic Segmentation 2](https://github.com/YimingCuiCuiCui/Awesome-Panoptic-Segmentation-Papers)
* Object Detection
  + [Object Detection 1](https://github.com/amusi/awesome-object-detection)
  + [Object Detection 2](https://github.com/daicoolb/Awesome-Object-Detections)
* Image Denoising
  + [Image Denoising 1](https://github.com/oneTaken/Awesome-Denoise)
  + [Image Denoising 2](https://github.com/z-bingo/awesome-image-denoising-state-of-the-art)
* [Continual Learning/Lifelong learning](https://github.com/prprbr/awesome-lifelong-continual-learning)
* Multimodal learning
  + [Multimodal learning 1](https://github.com/pliang279/awesome-multimodal-ml)
  + [Multimodal learning 2](https://github.com/Eurus-Holmes/Awesome-Multimodal-Research)
* Active learning
  + [Active learning 1](https://github.com/yongjin-shin/awesome-active-learning)
  + [Active learning 2](https://github.com/2006pmach/awesome-active-learning)
* [Deep Reinforcement Learning](https://github.com/brianspiering/awesome-deep-rl)
* Knowledge Distillation
  + [Knowledge distillation 1](https://github.com/FLHonker/Awesome-Knowledge-Distillation)
  + [Knowledge distillation 2](https://github.com/dkozlov/awesome-knowledge-distillation)
* [Local Global Descriptors](https://github.com/shamangary/awesome-local-global-descriptor)
* Image Captioning
  + [Image Captioning 1](https://github.com/zhjohnchan/awesome-image-captioning)
  + [Image Captioning 2](https://github.com/forence/Awesome-Visual-Captioning)
* [Image to Image translation](https://github.com/weihaox/awesome-image-translation)
* [Text To Speech](https://github.com/seungwonpark/awesome-tts-samples)
* Text to Image synthesis
  + [Text to Image 1](https://github.com/Yutong-Zhou-cv/Awesome-Text-to-Image)
  + [Text to Image 2](https://github.com/kunli-cs/Awesome-Text-to-Image-Synthesis)
* [Speech recognition & synthesis](https://github.com/zzw922cn/awesome-speech-recognition-speech-synthesis-papers)
* [Speaker Diarization](https://github.com/wq2012/awesome-diarization)
* [Action Recognition](https://github.com/jinwchoi/awesome-action-recognition)
* [Video understanding](https://github.com/sujiongming/awesome-video-understanding)
* Pose Estimation
  + [Pose estimation 1](https://github.com/wangzheallen/awesome-human-pose-estimation)
  + [Pose estimation 2](https://github.com/cbsudux/awesome-human-pose-estimation)
* [Machine translation](https://github.com/maidis/awesome-machine-translation)
* Visual Question Answering (VQA)
  + [Visual Question Answering 1](https://github.com/jokieleung/awesome-visual-question-answering)
  + [Visual Question Answering 2](https://github.com/Taaccoo/awesome-vqa-latest)
* Question Answering (QA)
  + [Question Answering 1](https://github.com/seriousran/awesome-qa)
  + [Question Answering 2](https://github.com/dapurv5/awesome-question-answering)
  + [Question Answering 3](https://github.com/monk1337/Awesome-Question-Answering)
* [Explainable Graph Reasoning](https://github.com/AstraZeneca/awesome-explainable-graph-reasoning)
* [Knowledge Graph Question Answering](https://github.com/BshoterJ/awesome-kgqa)
* Text Summarization
  + [Text Summarization 1](https://github.com/mathsyouth/awesome-text-summarization)
  + [Text Summarization 2](https://github.com/icoxfog417/awesome-text-summarization)
* Optical Character Recognition (OCR)
  + [Optical Character Recognition (OCR) 1](https://github.com/kba/awesome-ocr)
  + [Optical Character Recognition (OCR) 2](https://github.com/zacharywhitley/awesome-ocr)
* Graph Neural Networks (GNN)
  + [Graph Neural Networks (GNN) 1](https://github.com/GRAND-Lab/Awesome-Graph-Neural-Networks)
  + [Graph Neural Networks (GNN) 2](https://github.com/thunlp/GNNPapers)
  + [Graph Neural Networks (GNN) 3](https://github.com/mengliu1998/awesome-deep-gnn)
* Generative Adversarial Networks (GAN)
  + [Generative Adversarial Networks (GAN) 1](https://github.com/nightrome/really-awesome-gan)
  + [Generative Adversarial Networks (GAN) 2](https://github.com/kozistr/Awesome-GANs)
* [Optical Flow](https://github.com/antran89/awesome-optical-flow-algorithm)
* [360 vision](https://github.com/hsientzucheng/awesome-360-vision)
* [Energy based models](https://github.com/yataobian/awesome-ebm)
* [Decision Trees](https://github.com/benedekrozemberczki/awesome-decision-tree-papers)
* [XGBoost](https://github.com/dmlc/xgboost/tree/master/demo)
* [Metric Learing](https://githubmate.com/repo/Adamdad/Awesome-metrics-learning)
* Recommendation Systems
  + [Recommendation Systems 1](https://github.com/jihoo-kim/awesome-RecSys)
  + [Recommendation Systems 2](https://github.com/scnu-dil/awesome-RecSys)

**Generic Deep learning, CV, NLP lists**

* [Deep Vision](https://github.com/kjw0612/awesome-deep-vision)
* [Computer vision](https://github.com/jbhuang0604/awesome-computer-vision)
* [DL papers](https://github.com/terryum/awesome-deep-learning-papers)
* [DL paper reading roadmap](https://github.com/floodsung/Deep-Learning-Papers-Reading-Roadmap)
* [Applied Deep Learning](https://github.com/maziarraissi/Applied-Deep-Learning)
* NLP
  + [NLP 1](https://github.com/keon/awesome-nlp)
  + [NLP 2](https://github.com/brianspiering/awesome-dl4nlp)

**Data and ML lifecycle**

* Data Engineering
  + [Data Engineering 1](https://github.com/igorbarinov/awesome-data-engineering)
  + [Data Engineering 2](https://github.com/gunnarmorling/awesome-opensource-data-engineering)
* [Data Labeling](https://github.com/heartexlabs/awesome-data-labelinhttps:/github.com/heartexlabs/awesome-data-labelingg)
* [Software Engineering for Machine Learning](https://github.com/SE-ML/awesome-seml)
* Prodiction level DL
  + [Production level DL 1](https://github.com/alirezadir/Production-Level-Deep-Learning)
  + [Production level DL 2](https://github.com/ahkarami/Deep-Learning-in-Production)
* [ML system design](https://github.com/chiphuyen/machine-learning-systems-design)
* [Applied ML](https://github.com/eugeneyan/applied-ml)
* MLOps
  + [MLOps 1](https://github.com/visenger/awesome-mlops)
  + [MLOps 2](https://github.com/kelvins/awesome-mlops)
* Explainable AI(XAI)
  + [Explainable AI (XAI) 1](https://github.com/wangyongjie-ntu/Awesome-explainable-AI)
  + [Explainable AI (XAI) 2](https://github.com/altamiracorp/awesome-xai)

**Distributed systems and more**

* [ASGI](https://github.com/florimondmanca/awesome-asgi)
* [Distributed systems](https://github.com/theanalyst/awesome-distributed-systems)
* [Python](https://github.com/vinta/awesome-python)
* [Microservices](https://github.com/mfornos/awesome-microservices)