Stanford Papers  1. Dual Che X Net  - Chest radiograph interprelation  - Monford Che X part Dataset of frontal & labour  - Ly classes, 65 K palients -> 223 K tradiograph  - 15% are laborel, 85% out frontal  - Trained separate Danse Note, for frontal elation  - Averaged the output probabilities for both middle  - Auc Roc of 0.823, (There is nope)	
1/2. Diagnosis of AD using MR	
- 3D (NIN)	
- ADNI-1 dataset & ADNI-2 dateset	
- Both as TI- weighted structures	
- 3 clasers: NC MCI, AD; missioning	
- Spull stoupping algo using SPM, Many DE	
- Poor validation accuracy; few datagaints	
d <sub>b</sub>	
X 3. D1 for Congenital Lung using MRI	
- 21) and 31) CIVIV	
- binery dess prediction - normal is abnormal	
- Fetal MRI Scans. SSESE dataset (72 weighted)	
- des imbaland. 2D densent 4 3D rund.	
- Accurry ~100	
4- Brain Tumor segmendation UWMRCHN	
- 1st method: Coscade of WNet and a UNet	
- 2 nd method: Mask R-CNN	
- BraTS 2018 dataset	
Considered new followed Dretter	
- 14 method: MRI scan Whet Lounding box -> segment	
-2nd ": ilp: slices & their meds	
- Kuge datesit 330 K train imays	
- Kuge dateset 330 K train irrays  Scanned with They trained locally using conty 10.5 K vinages  CamScanner	
CamScanner	

5.4. Semantie segmentation Aprilie Dissection U Link
CT scans
- Segment into 3 region: true PATE: 1
- Segment into 3 Segions: true turnous & background.  - 201Net and Link Net comparison
- Dice -coefficient antique in law 1 -1
- Dice-coefficient metrie in loss function
- 24 CT acrtogram from stemford Hedicel
- back CT mede og 800 256×256 gregscole slices
- Less Data (very). UNet & Linpwed early trainable.
top + Dice long
-3D UNet. Duce seures of 0.05+
1 6. Knee Osles using radiograph
1 6. Knu Osleo using radiograph - Osleonethéritis (OA) in leading course of diambility invs.
- U/T(T/6: DAT dataset al V - mass al Alle a internal
- U(rG-16; DAI datoset of X-ray of left & right knowl
- Benery closefication
7. Productor seizures from EEG lecording
- Date Brain activity by electrols in dogs (30 seconds)
- CNN and RNN, binury description
= Priserie al region in next 10 mins or absence
= presence of segies in rect 10 mins or absence AUCROC.  - Kaggle competition dataset. Leaderboard to Lead 0.84;
- 4 American Epilipry sugar prediction
- Poor results; couldn't beat leader board at all
( Jacoby To Joseph Jacoby Joseph Jacoby Jaco
3. Instance und and watershed breast cancer
3. Instance und and watershed breast cancer  - Performs highly accurate all segmentation & assistants
Palaset - Region Proposel Networks to delect alls with bounding box
they - Instance U-Net for Legmentation
collected - Watershed algorithm to improve on nel's outed
under - Beat SOTA. Very wool pipeline RPN+ UNct + Walrahal
micripage - Identifies alls in images (issues: high denicty &
- Input: 40x plusterent nucleus image 448x447
- RPN of boundary box ; UNet of segmentation
- watershed
Separates touching alls & guest (eithe instance segmentation) mep + count
Seanned with CamScanner (like instance segmentation) mp + count-

1 Automati Prian Anewrym agrand CT  - Lignary CT angegraphs  - Date:  - Colored Lake of Decoder:  - Proper remodely recompling scarce of this less  - Stanford medical alhood delicit from Prof (3)  - Stanford medical alhood delicit from Prof (3)  - Stanford medical alhood delicit from Prof (3)  - Looma Net & Legment neurons forebrain  - Legment neuron some in 1D nairoscopy invests  - Get delicit from Prof UNet  - Du trained on non-numon cell nucleus  Legionalidion dele from Kaggis Pete leuris Eaul  - Dun emplayed TL, Silvarial Let layer on  - But emplayed TL, Silvarial Let layer on  - But emplayed TL, Silvarial Let layer on  - Class Embedonic:  - The trained on post class  - Modelial for function:  - Get delicit in my for far model interpretability  - Reagle detiret; 37.6% accuracy  - Class actuation mp to far model interpretability  - Reagle detiret; 37.6% accuracy  - Class actuation mp to far model interpretability  - Respective concert  - Date:  - But of NN  - Looked at FP, FN; TP; TN (Errin analys)  - Silvar noul V-Net bosed model  - ISI C 2017 mellanome deteret  - Allenting U-Net built on dop of  Pagin Leeky U-Net  - Can Scanned with  - Can Scanned w			
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PAGE: DATE: / / N. I. Image Restoration low quality med images - Denoising low resolution sutinal images while relaining small features ( like blood versels) relieve Try autoencoder vs Deepenn vs GAN, - Metric for nowines is CSNR &SS'IM (higher - holler) - GAN was a pre-trained return for supervisibilion - Dateset had high res images - PSNR - realism; SSIM - reconstruction - Finel regults are closed on these two melons. - CNN did the best is. So wood wood things did not work well Good idea; but different techique should be trud Boost MRI quality - DL model to learn mapping from naw deta to image domain of MRI knee scans Signel-to-noin of 28.2; beats standard reconstruction methody. Input: K-space image in sensor domain Output: Reconstructed MRI image AUTOMAP SOTA image reconstruction model uses CNN Uses the primary architecture of AUTOMOR brilly on top of it, for knee MRI. - Risk of living GANs for medical viriegy: realism. They use CNN & not GAN for that reason. DAGAN used for MRI reconstruction. fast MRI deteset by Facebook AI research Novel problem; easy to code; not sur of for improvement reconstruction from 1- space input looks Pros: bood problem statement; nice outputs Con: Simple DL wde; fecture scope

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1 × (8.	for elderly.
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,	- Dateset- from Prof
5	- Too specifie
4	- Time server; spectograms; wavelet coeffs
h-	- Baselin +FC; wavelets +FNN; Spectrogreen
~-	1 - man Ticke to t(N) + Att +
~-	- Alot of different architectury - breed
	Alot of different was and edge marined
	- 700 much domain knowledge required.
17.	GAN translation between image modelities
	- Translate between 71 4 72 modeleting of on
,	Brain MRI dataset from Human Connectione
,	Project
<u>.</u>	- UNIT network [Image to Image Translation)
	- Improved by trying self-attention layers,
-	spectral normalyation, charbonnies penalty
	- They have replicated the paper with same dalest
	and used by their baseline
1	- MedGAN paper. PEJ => CT
	4 based on U-Net
	- The word 13 palients, smell dateset
1	- bros: cool network i basdine Paper; simple PS
	Cors: Requires higher Dl knowledge than
	legainletion . Purely Dr. besed.
	- SSIM metri ; Couldn't best baseline
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X 13.	Later to south 1 1 mit 1 mit
	Latent model for critical care using VAE
	- Uses VAE to get lotent representation of large
	patient date from EMR.
	- lep latint, uses stecked denously autoencodes
	to extract climically relieved features from EUR
*	- Introduced a nevel GM VAIE (Pausian moder
	VAE) which in a state church disposed into
CS Scan	ned with learning froces

× 19. lemantie segmen of 3D protein
- Migh bio produs knowledy; author is protein - simply Nelturk; Complex proporcions of latin
- simp4 Nelturk; complex preprocessing & latin
analysis. Work does not look paralleligelshe.
Find papers
Classification - 1. Dual Che X Net
Hovel dateset; easy to gauge progres
H lighty parallelizable work
+ Simpler DL than other tasks
+ Ongoing leaderboard by stanford KG.
+1 Cons: classification; Iterative
Segmendation - 4. Brain Tumour segmendation UWMRCNN
tood Brats dateset; cary to gauge progress
Highly parallelizable work: Ongoing leaderboard
Hons: Tought DL; Fust U-Net won't cut it.
long to divise the state of the
Longer training time; can't iteratively improve
because of long training; generic Ps
2 Tout 11 Aud 0
(8.) Instance V- Net & watershed breest camer
Beautiful use of algorithms in sequential manning
- Beet SOIA; easy to gener progress; Novel PS
1- Cong: Dateset not available; is not related to
MR/CT/Xray. St. Toeyher DL (but stephtly).
Brogert using in datable of the
Biggist usine is detest & flerorume microxopy PS.
Image translation: bottom (17.) GAN between 7, & 72
It PS is cool; Baseline papel oxists with code
H you to gain more in Delatin and
H Lary to gary progress; Paleset is available
tons: De knowledge; Beating Paper baseline
might not be possible; Purely Dr based; high
- sarrest Cidiamement Knowledge needed for letting
Cam Acan wiproving. Not parallelizable