APML 5 718:2 Convolutional Neural Networks NOW LOV (1,016 dis) 34 NOIN BAILS LES OF USIN (283 P.) of ago, italy sport and out to soon of CNDLE: JULIA GLADES DIES DICHA CINO P-5509. MICIA MARCE DE SOND: SCAR GILANETE # Scar May Mica Mica wild 6100.4 (shing ilus), that . Ofon 18 "PISON" תפשלה כה היא פטום ביצוע קונכולוציה של הפילטר צים הקלם. 340 000 P8 718 VIPIP le 6/08 1.77 700 = activation map # P173 UNIC, GA & rOLD PYRON UNITED : P1/24 18 39 # (Stride) 2(3) 10983 NUS, 261.00 PAIR NW NIDER J8 18'00, De 5 - apt , sort (padding) 91012 DUL , G/DD SA16 input Shape 7×7 : LENS FXF FXF filter shope 3x3 3×3 stride 1 output shape sxs # MICHIEL NXV: SPOR SUDIC 8 50 CMISS ULLES MINS The wills. un tell 1200 pro 3 00 160 glice of cours channels -1) ON No P 1:Gil - PIBIND PINI PIGNODID ON NO Pooling wase they was prima # (16/2) Maland ascar bushed nos (6, 10/9) pr (1/9) NICO -1507 2.0/1/1/1/2 23"/ 20:00 Pint ,2 se stride P8 3x3 & pooling-10 livil # aliasing synd love, pooling - s

JUND: CONV Nets בארים בארה נבחרנה: OCR ~12001 NING SERS 2025 - 1998, LeNet + ImageNet Spen - 2012, AlexNet \* 2008 - 1102 - UNIOS - 1016 & COPCIO COPE SOIL NEG (3×3-811×11 -N +1765.00) NC 11.670) NOID 1.8. NI, DT 6.101 6.JOLOG JOVONI अभा क तीय पाविष्टितः 1 px ~ con o Bihnt 100km we ship to Preprocessing. 9 106 27 18 7.3 1 100 pc 8130 whitening (a) -1:01/65 PAIS 02:0 · Allipan Sink .2 300012 h: (short she de Midgille 1-0. An rosen to link a river is great unt bokn rojk righ I st looks njelkin nasen 100km Nopens so ReLU 01 plc = nosen se whilmon for ooker son tank e por the bol been count (ased ce applica) JOURN S: JULY CLEING. MUVERY LAIRE PAIRE ARIONAN THAN MAKE "Xavier": 3 MODE when hilly with you stand by ording le God No (Ny) 210 n 106: Batch Normalization: 7No (1200 8. Anico 2201: In noin 8. Line - 1800.3 2) 12000 100 DUN SIGNE 330 - 2030 DOURE: CLOSS- ENTLOOPY (19) lig(P(X/Y)) rup In le Good to allien of coons Square Loss (7)

Aind of User alaingin: call CE 8 Pois 2007: 1003 1005 21178 3  $\max_{\Theta} log(P(g|x)) = \max_{\Theta} log(\frac{P(x|g) \cdot P(g)}{\sum_{j} P(x|y) \cdot P(y)})$ = min  $\left\{-\log \frac{P(x|9)}{\sum P(x|y)}\right\} =$ = min | log Z P(x/y) - log P(x/y) } = = min { log Z exp(oy) - 0g} = = min { log [ exp(0g-0g)] = min { log } exp(log P(x/y)) (mini batch): SGD 4 alcorp sing for loss on it 158 pary, batch pro 72 10380 3835 6.0,0106 foll 18.0 : momentam fecon 5000 BAD P.383 NOON INO WIED -1176 JUNN GK3770 P/CO The ax30 of 1961-1961 the ax30 of WES.U: STr. & JROL 190000 of Unitalia: PIGININ PX IJIED PK 757 77NP nesterov: 11012 1811 10km PGNIND 1'8 3830 11ND E 1187 POIN Adam: 2830 - P'N9170 P.9837N P.GJ. 9767 6 learning rate 5 90,00 (1- 2) UDIGE DENCON (UL) 1860 s/ (-2) NI CE, (4,11).

APML D. Frodos C. and CANI 1900 Cabor Laise of notiful 6 718.6 forces redundancy 1 ? PIC DS TNS 2. ADD DIGA 1/1 0876 N. COIDI 3 monte-carlo NOSS opus test -P By INX' DID' DS LE MING 703) KE test INER DOD inverted dropout - 1886 2171 818 SA MONDIGIAM: (SA 819512) - ACL ESS (841A COS) 1(603) ALM 9 h->h.r , r~N(1,02) : Multiplicative Gayssian Moiseh-> htr, r~N(0,02) : Additive Gaussian Noise-· 20 161627 K NBNNDONGO BUNG Data Augmentation 7 3659-1 sh 6631011 00 18418 27019 81. hyper-parameters MIDP 11.15) List conscio ogsil scuss stand derist 1.38 gover the metalones who : Grid Search \* (100 2/4 of COND'S (20/00000 & COCNDC) 1/600 you NA STILL STONE OF BLOCK OF BLOCKE : Random Search \* antia of Unite. 2 (2) police.d- de osa (4000 antia que פערתה החיפוש. ספה פנה נעוץ עולפשע ההקה שאן שאצור 010 no le p10 Kf Random Search NOR OF CIDIND SINN): Coarse to fine \* NOW NIZIN PYTOL PRININ THED Grid Search -D LONY JOKI

Silv xilles. W ( VICAIV MALLINE 1 SINCE ON SECT COVE THE YOUR COL THE of OILD EN 3 BUIN UNICO DN 70 2110-CV 614,0 36 2102 (211 321d 2100 J.18 dong 1911 तहासत वार्षिता के तहार हताची पूर्ण व्यक्तिक , (4) 1) 13 1100ple -1/197 5 6.01316U BE WRECOMUS OF WILLIAM SIGNED 3116 5 ( receptive fields, channels on, pN10) OBOS MINE ES MARO, VC-dimension & MINITAD OF MED 3 JUSTS - C. C-DA M. ang under del sell sell (CAI) 10 and out UCH alion sade my elsnyll hit wer word stall of all El & (15)10x 2/160 (17)10 ? York OULUN (NORIN & (18)10)1. 3 MIN DOS WELL JOHN 9811 DI GUILLS 77182 highly non-convex 100 1187 2001 3218 12 560, 18102 6. due 19/109.414. מספר אפשר: מתימקס לקורים, מתחים הצח: 100 /c/ 71/cN 3-lin ik sobil exin it 0.3"N yic : Adversarial Examples 5 2000000 store store of 10000 proper store and one JUSTON MYDENIE: All-Consolution -> Stride >1 PX at PISINJIPP pooling rosson. .1x1 13 Visyipo dense 10 son -18 STOPPEN NO DIC pooling le 130 INS : 12000 Sour ryle 10-18th -1181/17/17 Mol inception module or live: Google Net 2 ( of a file cuttill nothing of the mine ce. flour . PIPICINI IC LUNG DOSI channels-1 ON NO STUIDT NOW STRING TOUR RENET 3

