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Libraries used: most recent versions of pandas, numpy, cvxopt, math, autograd, pyplot.

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Table: Different training losses for different models

Model	L <sub>2</sub> loss	L <sub>2</sub> loss	L <sub>inf</sub> loss
L <sub>2</sub> Model	0.02195529826247768	0.023044304535428106	0.02796169729737883
L <sub>1</sub> Model	0.16699146530459466	0.15706138462087946	0.20572626053247667
L <sub>inf</sub> Model	5.00974395913784	4.711841538626384	6.1717878159743

Table: Different test losses for different models

Model	L <sub>2</sub> loss	L <sub>2</sub> loss	L <sub>inf</sub> loss
L <sub>2</sub> Model	0.0197020636144262	0.01976465141082499	0.02394708648907498
L <sub>1</sub> Model	0.15908510988891536	0.15889173091578115	0.17452235311639228
L <sub>inf</sub> Model	159.08510988891535	158.89173091578115	174.52235311639228

Table: Different training losses for different models

Model	L <sub>2</sub> loss	L <sub>2</sub> loss	L <sub>inf</sub> loss
L <sub>2</sub> Model	0.008752817096550427	0.010677393902190128	0.012263669973475017
L <sub>1</sub> Model	0.10567865679129301	0.09725614502158306	0.12456209232930808
L <sub>inf</sub> Model	3.1703597037387903	2.917684350647492	3.7368627698792425

Table: Different test losses for different models

Model	L <sub>2</sub> loss	L <sub>2</sub> loss	L <sub>inf</sub> loss
L <sub>2</sub> Model	0.02125981235371155	0.021385321561594627	0.024019361084271395
L <sub>1</sub> Model	0.16321793303009113	0.16269328015306836	0.1760734900880556
L <sub>inf</sub> Model	163.21793303009113	162.69328015306837	176.0734900880556

Table: Different training losses for different models

Model	L <sub>2</sub> loss	L <sub>2</sub> loss	L <sub>inf</sub> loss
L <sub>2</sub> Model	0.013499382685245327	0.016085967030890914	0.014062858114292679
L <sub>1</sub> Model	0.1374416653875065	0.13081120494045734	0.1425706482457309
L <sub>inf</sub> Model	4.123249961625195	3.9243361482137202	4.277119447371927

Table: Different test losses for different models

Model	L <sub>2</sub> loss	L <sub>2</sub> loss	L <sub>inf</sub> loss
L <sub>2</sub> Model	0.01811270124466558	0.018139438173941418	0.021578814672670442
L <sub>1</sub> Model	0.15129302090387506	0.15115310072181126	0.16388770757099552
L <sub>inf</sub> Model	151.29302090387506	151.15310072181126	163.88770757099553

Table: Different training losses for different models

Model	L <sub>2</sub> loss	L <sub>2</sub> loss	L <sub>inf</sub> loss
L <sub>2</sub> Model	0.01836494334840313	0.020616546465203448	0.023941239912593514
L <sub>1</sub> Model	0.14688834208972787	0.14146647609786295	0.19300674644327778
L <sub>inf</sub> Model	4.406650262691836	4.243994282935889	5.790202393298333

Table: Different test losses for different models

Model	L <sub>2</sub> loss	L <sub>2</sub> loss	L <sub>inf</sub> loss
L <sub>2</sub> Model	0.019954625722984832	0.02009395211604993	0.024845952561566614
L <sub>1</sub> Model	0.15678943939460993	0.1560642563825354	0.17791271383917867
L <sub>inf</sub> Model	156.78943939460993	156.0642563825354	177.91271383917868

Table: Different training losses for different models

Model	L <sub>2</sub> loss	L <sub>2</sub> loss	L <sub>inf</sub> loss
L <sub>2</sub> Model	0.01977439659798246	0.023341171632482092	0.02400850911734353
L <sub>1</sub> Model	0.1491691531435136	0.13609773657351282	0.168581544897101

L\_inf Model | 4.475074594305408 | 4.082932097205385 | 5.05744634691303

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.020197943031174215	0.02021148145235356	0.02248442769788625
L_1 Model	0.15856663652556244	0.15845711980105193	0.1682351076162827
L_inf Model	158.56663652556244	158.45711980105193	168.23510761628268

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.023272401838622128	0.026282207199102556	0.037756658929304035
L_1 Model	0.17567463117836707	0.1682102648589518	0.23991638474877602
L_inf Model	5.270238935351012	5.046307945768554	7.197491542463281

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.020592790241771863	0.020615236170335578	0.0212975800839843
L_1 Model	0.16135105956172308	0.1612602919183508	0.16303059973182218
L_inf Model	161.35105956172308	161.26029191835082	163.03059973182218

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.025561731373163518	0.02700896285585302	0.04095806026468084
L_1 Model	0.16237515903538105	0.15329995913498928	0.24184609096281534
L_inf Model	4.871254771061431	4.5989987740496785	7.25538272888446

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.019664026005465223	0.019730992903327672	0.023746824457817946

L\_1 Model | 0.15879953665174926 | 0.1584758139969644 | 0.1759517818375853  
L\_inf Model | 158.79953665174926 | 158.4758139969644 | 175.95178183758532

Table: Different training losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.018740472294329028 | 0.020933606503146115 | 0.02866589521652946  
L\_1 Model | 0.1557593917770396 | 0.15048554286773666 | 0.2130017324151519  
L\_inf Model | 4.672781753311188 | 4.5145662860321 | 6.3900519724545575

Table: Different test losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.021154136065387248 | 0.021179284315651997 | 0.025332955417215842  
L\_1 Model | 0.16459562459493282 | 0.16444944258245328 | 0.1807055582238245  
L\_inf Model | 164.59562459493281 | 164.4494425824533 | 180.7055582238245

Table: Different training losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.022242110070891653 | 0.02400775720521399 | 0.034131974670979184  
L\_1 Model | 0.15869005354073515 | 0.14739314359056352 | 0.22613158746331788  
L\_inf Model | 4.760701606222055 | 4.4217943077169055 | 6.783947623899536

Table: Different test losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.0197634341675143 | 0.01982160668589218 | 0.026455292665964133  
L\_1 Model | 0.15845402911250941 | 0.15811057197664155 | 0.18394812172343328  
L\_inf Model | 158.4540291125094 | 158.11057197664155 | 183.94812172343327

Table: Different training losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss

L\_2 Model | 0.017491947452888276 | 0.023213383084767725 | 0.02198782403340773  
L\_1 Model | 0.15540583284476012 | 0.1401896601199901 | 0.18767401773164544  
L\_inf Model | 4.662174985342803 | 4.205689803599703 | 5.630220531949363

Table: Different test losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.02055199785119886 | 0.020596709192683648 | 0.0274072573953328  
L\_1 Model | 0.16081213330529476 | 0.16051348235361723 | 0.1891471656638954  
L\_inf Model | 160.81213330529476 | 160.51348235361723 | 189.14716566389538

Table: Different training losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.01752766841269136 | 0.022876187775553662 | 0.02172128892139564  
L\_1 Model | 0.15198214131621757 | 0.13898286462774895 | 0.179182242341092  
L\_inf Model | 4.559464239486527 | 4.1694859388324685 | 5.37546727023276

Table: Different test losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.019723822233585493 | 0.01981149735224863 | 0.01994437617311476  
L\_1 Model | 0.15830820611167745 | 0.1579533536186054 | 0.15985032233238264  
L\_inf Model | 158.30820611167746 | 157.9533536186054 | 159.85032233238263

Table: Different training losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.017237742295462686 | 0.0198913753113182 | 0.026700130610797658  
L\_1 Model | 0.15452045528683148 | 0.14924771737670436 | 0.19780218185001752  
L\_inf Model | 4.635613658604944 | 4.477431521301131 | 5.934065455500526

Table: Different test losses for different models

Model	L <sub>2</sub> loss	L <sub>2</sub> loss	L <sub>inf</sub> loss
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L <sub>2</sub> Model	0.019603675781241208	0.019644203944078037	0.026562389456833986
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L <sub>1</sub> Model	0.1588895428490465	0.1586832389091324	0.1864418865107403
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L <sub>inf</sub> Model	158.8895428490465	158.6832389091324	186.44188651074032
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Table: Different training losses for different models

Model	L <sub>2</sub> loss	L <sub>2</sub> loss	L <sub>inf</sub> loss
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L <sub>2</sub> Model	0.02021587831923378	0.02194420063035372	0.02839060931181086
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L <sub>1</sub> Model	0.16890493649783195	0.16127066417244648	0.20900082028351893
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L <sub>inf</sub> Model	5.067148094934958	4.838119925173395	6.270024608505568
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Table: Different test losses for different models

Model	L <sub>2</sub> loss	L <sub>2</sub> loss	L <sub>inf</sub> loss
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L <sub>2</sub> Model	0.020167929598441117	0.020259476682990444	0.022074257023379132
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L <sub>1</sub> Model	0.1615694442155779	0.161161882769433	0.16728410797673182
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L <sub>inf</sub> Model	161.5694442155779	161.161882769433	167.28410797673183
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Table: Different training losses for different models

Model	L <sub>2</sub> loss	L <sub>2</sub> loss	L <sub>inf</sub> loss
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L <sub>2</sub> Model	0.015055036514925624	0.017204557930210005	0.01782540718920499
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L <sub>1</sub> Model	0.13978420950322593	0.1318113528920079	0.16488804970680995
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L <sub>inf</sub> Model	4.193526285096778	3.954340586760237	4.946641491204298
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Table: Different test losses for different models

Model	L <sub>2</sub> loss	L <sub>2</sub> loss	L <sub>inf</sub> loss
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L <sub>2</sub> Model	0.0194274902233011	0.01947533086830826	0.022905709815673466
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L <sub>1</sub> Model	0.15791806679017686	0.15765322473828938	0.17367316793498902
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L <sub>inf</sub> Model	157.91806679017685	157.6532247382894	173.673167934989
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Table: Different training losses for different models

Model	L <sub>2</sub> loss	L <sub>2</sub> loss	L <sub>inf</sub> loss
L <sub>2</sub> Model	0.016650448363992425	0.020698016535881214	0.022569858873778586
L <sub>1</sub> Model	0.14726263832033928	0.13669701540107532	0.1850684383999022
L <sub>inf</sub> Model	4.417879149610179	4.100910462032259	5.5520531519970655

Table: Different test losses for different models

Model	L <sub>2</sub> loss	L <sub>2</sub> loss	L <sub>inf</sub> loss
L <sub>2</sub> Model	0.019581855116755528	0.019652725721338006	0.020407515313740264
L <sub>1</sub> Model	0.15945325456306342	0.15918409779511922	0.1638651051527742
L <sub>inf</sub> Model	159.4532545630634	159.18409779511921	163.8651051527742

Table: Different training losses for different models

Model	L <sub>2</sub> loss	L <sub>2</sub> loss	L <sub>inf</sub> loss
L <sub>2</sub> Model	0.015142278335053005	0.016024649624925297	0.020676669278926123
L <sub>1</sub> Model	0.1291153352449778	0.1214319032992137	0.1723113738567438
L <sub>inf</sub> Model	3.8734600573493347	3.642957098976411	5.169341215702314

Table: Different test losses for different models

Model	L <sub>2</sub> loss	L <sub>2</sub> loss	L <sub>inf</sub> loss
L <sub>2</sub> Model	0.02037787938167375	0.020429517328455105	0.024006202983601076
L <sub>1</sub> Model	0.1615470882453407	0.16118465269610247	0.1774422284380188
L <sub>inf</sub> Model	161.5470882453407	161.18465269610246	177.4422284380188

Table: Different training losses for different models

Model	L <sub>2</sub> loss	L <sub>2</sub> loss	L <sub>inf</sub> loss
L <sub>2</sub> Model	0.016362755048176407	0.017546011575480306	0.018918371012604247
L <sub>1</sub> Model	0.14203823418901337	0.13593990336994316	0.1561397725101537
L <sub>inf</sub> Model	4.261147025670401	4.0781971010982945	4.684193175304611

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.019432087925893977	0.019488063518607657	0.02193693112399669
L_1 Model	0.15698298396298488	0.1567444097053316	0.16851314508138174
L_inf Model	156.9829839629849	156.7444097053316	168.51314508138174

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.013527900533876541	0.016314028469915587	0.015367107786566015
L_1 Model	0.13778103261865168	0.12985367243409293	0.15120134705563568
L_inf Model	4.13343097855955	3.8956101730227877	4.53604041166907

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.01974273002640424	0.019764742726281165	0.02244681796181545
L_1 Model	0.15840756841798964	0.15826224782023035	0.16734664826496917
L_inf Model	158.40756841798964	158.26224782023036	167.34664826496916

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.017329667349628826	0.01827908359260939	0.023331785416344456
L_1 Model	0.1360414504604143	0.13141162577753873	0.17333293523015064
L_inf Model	4.081243513812429	3.942348773326162	5.19998805690452

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.018911580669392993	0.018968582440108465	0.021693228389465843
L_1 Model	0.15430817193116925	0.15399863528142896	0.16541886430406674



L\_inf Model |154.30817193116926 | 153.99863528142896 | 165.41886430406674

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.018065773363269675	0.023836068160838917	0.02175465803170375
L_1 Model	0.15410306845227023	0.13269114814741748	0.17953911697787242
L_inf Model	4.623092053568107	3.9807344444225246	5.386173509336173

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.019210289324323428	0.019229290137182543	0.021620044224097343
L_1 Model	0.1541298104902452	0.15403715556870456	0.16328457184107978
L_inf Model	154.1298104902452	154.03715556870458	163.28457184107978

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.010955079040904132	0.012087418061012207	0.013953989689533824
L_1 Model	0.12116968644408803	0.11111322812268538	0.13643245781459754
L_inf Model	3.6350905933226407	3.3333968436805614	4.092973734437926

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.020879712894578857	0.020897541168548663	0.021918805237831226
L_1 Model	0.16219608515459433	0.16215730282258986	0.16638569119627766
L_inf Model	162.19608515459433	162.15730282258986	166.38569119627766

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.02413419926660108	0.02713641729963268	0.038006551331576086

L\_1 Model | 0.16447772313655687 | 0.15984272310192954 | 0.2301055912439382  
L\_inf Model | 4.934331694096706 | 4.795281693057886 | 6.903167737318146

Table: Different test losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.01973481694573114 | 0.019789920356076646 | 0.02392646978576763  
L\_1 Model | 0.1593839575105546 | 0.15917578998180562 | 0.1739338521700883  
L\_inf Model | 159.38395751055458 | 159.17578998180562 | 173.9338521700883

Table: Different training losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.017285262633502736 | 0.020103267701723042 | 0.019352324340646508  
L\_1 Model | 0.15573737342537144 | 0.14950408825509684 | 0.169306217701957  
L\_inf Model | 4.672121202761144 | 4.485122647652905 | 5.07918653105871

Table: Different test losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.020649829177498226 | 0.020699132840563385 | 0.022965511612375613  
L\_1 Model | 0.16129086984669688 | 0.16108754099253111 | 0.1717141522387046  
L\_inf Model | 161.2908698466969 | 161.0875409925311 | 171.7141522387046

Table: Different training losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.011951205192693727 | 0.01332473435416138 | 0.013112337289141785  
L\_1 Model | 0.1267929785629277 | 0.11987938548873471 | 0.1384828467523744  
L\_inf Model | 3.803789356887831 | 3.596381564662041 | 4.1544854025712326

Table: Different test losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss

L\_2 Model | 0.02095718852128461 | 0.021007454703398615 | 0.02427289822921936  
L\_1 Model | 0.16431753955228207 | 0.1641597132773084 | 0.17651457262661066  
L\_inf Model | 164.31753955228206 | 164.1597132773084 | 176.51457262661066

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.012802181297566726	0.01565872241117478	0.015945268529325908
L_1 Model	0.13227408224332096	0.12604004044783015	0.15160663047754072
L_inf Model	3.968222467299629	3.7812012134349047	4.548198914326222

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.019897018078976654	0.019947353125676817	0.02334021393730012
L_1 Model	0.15926385096916276	0.1590130445504282	0.17220847022481703
L_inf Model	159.26385096916277	159.0130445504282	172.20847022481703

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.011998827749818976	0.012655207021677857	0.013854346256913511
L_1 Model	0.12267503471729185	0.11832123894379477	0.13116768073388843
L_inf Model	3.6802510415187557	3.549637168313843	3.935030422016653

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.020726168762113875	0.020841492290756228	0.02578484836591248
L_1 Model	0.16394945872625866	0.16353963302973848	0.1836587884367355
L_inf Model	163.94945872625865	163.53963302973847	183.6587884367355

Table: Different training losses for different models

Model	L <sub>2</sub> loss	L <sub>2</sub> loss	L <sub>inf</sub> loss
L <sub>2</sub> Model	0.014682774735602205	0.015305492138244475	0.0199056024233583
L <sub>1</sub> Model	0.13122822073980817	0.1264320627812644	0.169396653519
L <sub>inf</sub> Model	3.9368466221942446	3.792961883437932	5.081899605569999

Table: Different test losses for different models

Model	L <sub>2</sub> loss	L <sub>2</sub> loss	L <sub>inf</sub> loss
L <sub>2</sub> Model	0.01923676055495136	0.01932230558485573	0.022608050856021467
L <sub>1</sub> Model	0.1591989502124915	0.15885934311366687	0.17211994379488457
L <sub>inf</sub> Model	159.1989502124915	158.85934311366688	172.11994379488456

Table: Different training losses for different models

Model	L <sub>2</sub> loss	L <sub>2</sub> loss	L <sub>inf</sub> loss
L <sub>2</sub> Model	0.025205021105789968	0.026142179461571335	0.02730418095417095
L <sub>1</sub> Model	0.18047562955679822	0.17296765113552642	0.200585108531473
L <sub>inf</sub> Model	5.414268886703947	5.189029534065793	6.01755325594419

Table: Different test losses for different models

Model	L <sub>2</sub> loss	L <sub>2</sub> loss	L <sub>inf</sub> loss
L <sub>2</sub> Model	0.01959579689594081	0.019644920476908436	0.022805089237441827
L <sub>1</sub> Model	0.1571242257654945	0.15685798723142627	0.17012814994296294
L <sub>inf</sub> Model	157.12422576549451	156.85798723142628	170.12814994296295

Table: Different training losses for different models

Model	L <sub>2</sub> loss	L <sub>2</sub> loss	L <sub>inf</sub> loss
L <sub>2</sub> Model	0.01513099192632439	0.01617780537166983	0.019352457996298845
L <sub>1</sub> Model	0.1415798029613482	0.13568234291855905	0.17559976134126504
L <sub>inf</sub> Model	4.247394088840446	4.0704702875567715	5.267992840237951

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.021219509406255225	0.021260214296801565	0.026767345066218286
L_1 Model	0.1622021353765534	0.1620312342289163	0.18336670019700405
L_inf Model	162.2021353765534	162.0312342289163	183.36670019700404

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.009924245822362539	0.011738650823488307	0.013375915313151255
L_1 Model	0.11628713536101044	0.10889983247754288	0.13929304298798015
L_inf Model	3.4886140608303133	3.2669949743262863	4.178791289639404

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.02136743412476164	0.02149674902032545	0.02508195487182669
L_1 Model	0.1634146559150387	0.1629548866173102	0.1785591515348317
L_inf Model	163.4146559150387	162.9548866173102	178.5591515348317

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.013051520924531738	0.01602569002487886	0.021229308419666706
L_1 Model	0.12255708244003279	0.11094635405417116	0.17506688472448004
L_inf Model	3.6767124732009835	3.328390621625135	5.252006541734401

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.021680098303547248	0.0217313936226797	0.02288702745647245
L_1 Model	0.16839334563239403	0.16820721397952385	0.1724605472268547
L_inf Model	168.39334563239402	168.20721397952386	172.4605472268547

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.015230585533031112	0.016052676130737922	0.03383360129465273
L_1 Model	0.12540665770686232	0.11868313065667424	0.23412016891482187
L_inf Model	3.7621997312058695	3.560493919700227	7.023605067444656

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.020597791373749237	0.020660041573519007	0.025976212650909984
L_1 Model	0.16164353683965044	0.16145117085490335	0.18435071653876753
L_inf Model	161.64353683965044	161.45117085490335	184.35071653876753

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.016912914897551132	0.020671372217000997	0.019026175586283153
L_1 Model	0.14693597072225117	0.13786810510919562	0.16648746012627302
L_inf Model	4.4080791216675355	4.136043153275868	4.9946238037881905

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.019083270038514892	0.01915651955807651	0.021404688029841402
L_1 Model	0.1533905392845693	0.1530946491118694	0.16554520156759908
L_inf Model	153.39053928456931	153.09464911186942	165.5452015675991

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.013723693906968672	0.014733303676033352	0.021763337603765386
L_1 Model	0.13427436299653678	0.13066550686980838	0.18476040986730563

L\_inf Model | 4.028230889896103 | 3.9199652060942514 | 5.542812296019169

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.020637932343063624	0.020733869639916788	0.024349830719806082
L_1 Model	0.16270619090524913	0.16243677266776463	0.17526312804618355
L_inf Model	162.70619090524912	162.43677266776461	175.26312804618354

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.02319895475139062	0.02936023098548153	0.02479326314737297
L_1 Model	0.19158480808733186	0.18041977043144836	0.20032210357712238
L_inf Model	5.747544242619956	5.41259311294345	6.0096631073136715

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.019627027350002317	0.019683061131496277	0.021026553634504536
L_1 Model	0.15860899997735142	0.15836980866583567	0.16345478162425972
L_inf Model	158.60899997735143	158.36980866583568	163.4547816242597

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.011410710588638358	0.015110213818633948	0.01545689991408798
L_1 Model	0.12080098786770023	0.10700541958516063	0.15395676968851682
L_inf Model	3.6240296360310067	3.210162587554819	4.618703090655504

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.018153310875722105	0.018203259867925634	0.019938233152866844

L\_1 Model | 0.15291165409785656 | 0.15260801178150757 | 0.16001075254121408  
L\_inf Model | 152.91165409785657 | 152.60801178150757 | 160.0107525412141

Table: Different training losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.012636556801984456 | 0.014506896179645363 | 0.01876420845278531  
L\_1 Model | 0.12448618488381642 | 0.11888972792721372 | 0.16478980512273483  
L\_inf Model | 3.734585546514493 | 3.566691837816412 | 4.943694153682045

Table: Different test losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.022061944503824392 | 0.022164257349278686 | 0.0247253777954714  
L\_1 Model | 0.1688492124037648 | 0.16842098316367865 | 0.17963839325236963  
L\_inf Model | 168.8492124037648 | 168.42098316367864 | 179.63839325236964

Table: Different training losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.016967733802976677 | 0.019577760567786547 | 0.023171660350710666  
L\_1 Model | 0.1490197832347463 | 0.13867623669275375 | 0.19298057129470897  
L\_inf Model | 4.470593497042389 | 4.160287100782613 | 5.789417138841269

Table: Different test losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.020115628507160893 | 0.020140084938659108 | 0.023632742327445614  
L\_1 Model | 0.1579125518707904 | 0.15775343314777912 | 0.17313141738948154  
L\_inf Model | 157.9125518707904 | 157.75343314777913 | 173.13141738948153

Table: Different training losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss



L\_2 Model | 0.018637390064418998 | 0.021042291771659748 | 0.025182362687570823  
L\_1 Model | 0.1590142885920043 | 0.15370590982600987 | 0.18612234807784905  
L\_inf Model | 4.770428657760129 | 4.611177294780296 | 5.583670442335472

Table: Different test losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.019680716133109587 | 0.019746743485291474 | 0.024701782885019487  
L\_1 Model | 0.1592742440304859 | 0.15897048369332661 | 0.18010134734329367  
L\_inf Model | 159.2742440304859 | 158.97048369332663 | 180.10134734329367

Table: Different training losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.012988152693761542 | 0.015593325135829336 | 0.013326872353477303  
L\_1 Model | 0.1434568061636711 | 0.1372398314631275 | 0.14524948234389334  
L\_inf Model | 4.303704184910133 | 4.117194943893825 | 4.3574844703168

Table: Different test losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.020477836388927084 | 0.02063394815464747 | 0.0213478937391193  
L\_1 Model | 0.16227711631526145 | 0.16183485780822743 | 0.16528481530461453  
L\_inf Model | 162.27711631526145 | 161.83485780822744 | 165.28481530461454

Table: Different training losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.011879801208010814 | 0.01337183175912941 | 0.01945320329340185  
L\_1 Model | 0.12585357568220518 | 0.11822617339245008 | 0.172036447992256  
L\_inf Model | 3.7756072704661556 | 3.546785201773502 | 5.16109343976768

Table: Different test losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss

L\_2 Model | 0.02013326826932213 | 0.020159561424765524 | 0.022267258961798864

L\_1 Model | 0.16084066133831382 | 0.1606777529168794 | 0.16967190043696675

L\_inf Model | 160.84066133831382 | 160.6777529168794 | 169.67190043696675

Table: Different training losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss

L\_2 Model | 0.018296771643987894 | 0.021317833025841025 | 0.02132971396681544

L\_1 Model | 0.1547039153023414 | 0.1434282367797971 | 0.17974013231250632

L\_inf Model | 4.641117459070242 | 4.302847103393913 | 5.392203969375189

Table: Different test losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss

L\_2 Model | 0.01894547959831914 | 0.01902809815558252 | 0.02212946076990061

L\_1 Model | 0.15528680084316898 | 0.15511074985085 | 0.16831689049167156

L\_inf Model | 155.28680084316898 | 155.11074985085 | 168.31689049167156

Table: Different training losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss

L\_2 Model | 0.02066032646986726 | 0.024334296173379715 | 0.022335301146537763

L\_1 Model | 0.1671250979907497 | 0.16497685003423096 | 0.17363311687603616

L\_inf Model | 5.013752939722491 | 4.949305501026929 | 5.208993506281085

Table: Different test losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss

L\_2 Model | 0.021155537290622375 | 0.021265889334404455 | 0.024629826097550427

L\_1 Model | 0.16356201648602364 | 0.16311009800957385 | 0.17679917080301347

L\_inf Model | 163.56201648602365 | 163.11009800957385 | 176.79917080301345

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.02051850469557437	0.02306682737292338	0.03192851601058286
L_1 Model	0.1507086325707789	0.14570108202552137	0.21811418238640357
L_inf Model	4.5212589771233676	4.371032460765641	6.543425471592107

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.01976920943330998	0.019828880270717112	0.02264172361849981
L_1 Model	0.16075489820430164	0.16046211865176413	0.17278662194509076
L_inf Model	160.75489820430164	160.46211865176414	172.78662194509076

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.01971487781403823	0.021206323173935393	0.023113946279782478
L_1 Model	0.15802948804334732	0.14931907324644253	0.17308048488809796
L_inf Model	4.740884641300419	4.479572197393276	5.192414546642939

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.01933785964906126	0.019389728096225085	0.022677934182296983
L_1 Model	0.156371763798297	0.15616114452747654	0.16996812096714123
L_inf Model	156.371763798297	156.16114452747652	169.96812096714123

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.0145004432522264	0.01646433729880497	0.018712187720127074
L_1 Model	0.14702517004066962	0.13478136200573754	0.17409058913425465
L_inf Model	4.410755101220088	4.043440860172126	5.222717674027639

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.019159104022239703	0.019285903154970675	0.024097402509328198
L_1 Model	0.1576601545253367	0.1573227482638951	0.17698529835821453
L_inf Model	157.66015452533668	157.3227482638951	176.98529835821452

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.015549001374093903	0.017218333812258922	0.024458986107272398
L_1 Model	0.14168187813249034	0.13005761318228043	0.1819932680647362
L_inf Model	4.25045634397471	3.9017283954684125	5.459798041942086

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.01978805571349212	0.01982421027306172	0.02808710289110733
L_1 Model	0.15862192997818914	0.1584895842980625	0.19043530962826097
L_inf Model	158.62192997818914	158.4895842980625	190.43530962826097

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.014410545759534031	0.015495737351051768	0.020852100296210728
L_1 Model	0.12384816807912209	0.11903248749243237	0.18165437623219116
L_inf Model	3.7154450423736627	3.570974624772971	5.449631286965735

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.01945309185050201	0.019515409445183044	0.024855681606709347
L_1 Model	0.15518292737095737	0.15495519607483457	0.17722363725888016

L\_inf Model |155.18292737095737 | 154.95519607483456 | 177.22363725888016

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.015234116018721811	0.01633614457737872	0.016986924183464414
L_1 Model	0.14363479807085908	0.1374107008373534	0.16429025918692877
L_inf Model	4.309043942125772	4.122321025120602	4.928707775607863

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.020000682103627227	0.02004324689409589	0.0268070836012368
L_1 Model	0.15668775574763014	0.15646625530235428	0.1840648143232776
L_inf Model	156.68775574763015	156.46625530235428	184.0648143232776

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.019249776851256957	0.02167582121243036	0.025188801011301186
L_1 Model	0.16556864191358972	0.15127446670084208	0.1932580959557986
L_inf Model	4.9670592574076915	4.538234001025263	5.797742878673958

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.01982829275497404	0.019866691423215725	0.02551107359836104
L_1 Model	0.1585079989632902	0.15831769573726495	0.1797486251738897
L_inf Model	158.50799896329022	158.31769573726496	179.7486251738897

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.015218662733003313	0.015999915720463928	0.018835981452782695

L\_1 Model | 0.13428287507717032 | 0.12934973954728618 | 0.15878097153284976  
L\_inf Model | 4.028486252315109 | 3.8804921864185857 | 4.7634291459854925

Table: Different test losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.018607674899405492 | 0.018624462349836543 | 0.020678636803419657  
L\_1 Model | 0.15408312752441697 | 0.15404428706066228 | 0.162040911228006  
L\_inf Model | 154.08312752441697 | 154.04428706066227 | 162.04091122800602

Table: Different training losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.021702338092502608 | 0.02522234758578412 | 0.025396990583067606  
L\_1 Model | 0.17743721212872085 | 0.1629406438358205 | 0.19206896537832824  
L\_inf Model | 5.323116363861626 | 4.888219315074615 | 5.762068961349847

Table: Different test losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.019924465484705584 | 0.019962291226136415 | 0.023853144853818634  
L\_1 Model | 0.15987780165587095 | 0.1597237093670153 | 0.17430520531113206  
L\_inf Model | 159.87780165587097 | 159.7237093670153 | 174.30520531113206

Table: Different training losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.017892213025391103 | 0.020047791983506726 | 0.023729916993718497  
L\_1 Model | 0.14878906086972316 | 0.13437533159533005 | 0.18782336573996006  
L\_inf Model | 4.463671826091694 | 4.031259947859901 | 5.634700972198802

Table: Different test losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss

L\_2 Model | 0.019132688309802838 | 0.019302820294533566 | 0.021254737962056836  
L\_1 Model | 0.15599694479977202 | 0.15542263916321056 | 0.16471498652256122  
L\_inf Model | 155.99694479977202 | 155.42263916321056 | 164.71498652256122

Table: Different training losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.02189545216184751 | 0.023705101866113472 | 0.023506814507597472  
L\_1 Model | 0.1783002330026714 | 0.1730450296060498 | 0.18895614164347913  
L\_inf Model | 5.349006990080142 | 5.1913508881814945 | 5.668684249304373

Table: Different test losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.02022110723888837 | 0.020274556470250574 | 0.024505509442443292  
L\_1 Model | 0.15931087222949078 | 0.15913433910142907 | 0.17737765430340338  
L\_inf Model | 159.31087222949077 | 159.13433910142908 | 177.37765430340338

Table: Different training losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.016665087011594526 | 0.01933734693959089 | 0.01930133246763229  
L\_1 Model | 0.1532581739575972 | 0.14125202946408452 | 0.16906410099365962  
L\_inf Model | 4.5977452187279155 | 4.237560883922535 | 5.071923029809788

Table: Different test losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.0198981819563136 | 0.019922062503307768 | 0.020572788016541825  
L\_1 Model | 0.16090172812631803 | 0.16081184684892522 | 0.16422548696773043  
L\_inf Model | 160.90172812631803 | 160.81184684892523 | 164.22548696773043

Table: Different training losses for different models

Model	L <sub>2</sub> loss	L <sub>2</sub> loss	L <sub>inf</sub> loss
L <sub>2</sub> Model	0.018395087415808746	0.02176688924929463	0.021597770472362863
L <sub>1</sub> Model	0.15595083731971174	0.14376913734199662	0.17554148143558965
L <sub>inf</sub> Model	4.678525119591352	4.313074120259898	5.26624444306769

Table: Different test losses for different models

Model	L <sub>2</sub> loss	L <sub>2</sub> loss	L <sub>inf</sub> loss
L <sub>2</sub> Model	0.020641845406021524	0.02068901263944924	0.02184232729886155
L <sub>1</sub> Model	0.1647432227737946	0.16460656518880476	0.1685235716956425
L <sub>inf</sub> Model	164.7432227737946	164.60656518880475	168.5235716956425

Table: Different training losses for different models

Model	L <sub>2</sub> loss	L <sub>2</sub> loss	L <sub>inf</sub> loss
L <sub>2</sub> Model	0.012463765521589542	0.013742905040100707	0.015855807473978484
L <sub>1</sub> Model	0.12403834383115561	0.11323301946019972	0.15003387953989883
L <sub>inf</sub> Model	3.7211503149346683	3.3969905838059913	4.501016386196965

Table: Different test losses for different models

Model	L <sub>2</sub> loss	L <sub>2</sub> loss	L <sub>inf</sub> loss
L <sub>2</sub> Model	0.019078185554156083	0.019164912295524816	0.021939662808778786
L <sub>1</sub> Model	0.15600726506626225	0.15567449256151195	0.16715648319861773
L <sub>inf</sub> Model	156.00726506626225	155.67449256151195	167.15648319861774

Table: Different training losses for different models

Model	L <sub>2</sub> loss	L <sub>2</sub> loss	L <sub>inf</sub> loss
L <sub>2</sub> Model	0.024136397551685684	0.02755953862413715	0.038575476792060207
L <sub>1</sub> Model	0.16750427339777907	0.15249246662937938	0.25762900649696224
L <sub>inf</sub> Model	5.025128201933372	4.574773998881382	7.7288701949088665



Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.019668229111727022	0.019720745091819487	0.022153345921301946
L_1 Model	0.1593903157133856	0.15912074048571315	0.16918243487799356
L_inf Model	159.3903157133856	159.12074048571316	169.18243487799356

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.010896438991670542	0.01149389722358705	0.012140990331455123
L_1 Model	0.11951574395819056	0.11303512591503971	0.12992829230006786
L_inf Model	3.5854723187457167	3.3910537774511913	3.8978487690020356

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.019164619922347737	0.019218324316147357	0.023444084039323437
L_1 Model	0.15564804883121258	0.15544472652253388	0.17445301787652118
L_inf Model	155.64804883121258	155.44472652253387	174.4530178765212

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.014999173860505633	0.01647441203271083	0.02166590352616552
L_1 Model	0.12757990591697366	0.11743332040421967	0.17598088803740836
L_inf Model	3.8273971775092095	3.52299961212659	5.27942664112225

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.018563650161040182	0.018633414084809688	0.023152184398583495
L_1 Model	0.15464745391819743	0.1542141045081248	0.17292185045924205
L_inf Model	154.6474539181974	154.21410450812482	172.92185045924205

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.01743070839429687	0.021885416646320276	0.02402256618055198
L_1 Model	0.14898417864205624	0.1328372487116067	0.18801090564331238
L_inf Model	4.469525359261687	3.9851174613482017	5.640327169299371

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.019910192740239946	0.019995633596891667	0.024341469932078988
L_1 Model	0.1577792143595792	0.1574672422711603	0.17562882302227337
L_inf Model	157.7792143595792	157.4672422711603	175.62882302227337

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.021631972299723946	0.02464361204457324	0.02858957597052702
L_1 Model	0.16326686864077125	0.1532965805895999	0.20046277014773603
L_inf Model	4.898006059223137	4.598897417687997	6.013883104432081

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.017791906165024178	0.017816349176864737	0.018584144006080546
L_1 Model	0.14720818847662584	0.1471002344147896	0.1504316314035534
L_inf Model	147.20818847662585	147.10023441478958	150.43163140355338

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.007676487580082631	0.008539592707031533	0.011826462207424972
L_1 Model	0.09957918129959377	0.09304880532731487	0.1315207407040602

L\_inf Model | 2.987375438987813 | 2.791464159819446 | 3.9456222211218055

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.021283165150503693	0.021317520764528912	0.02346928204300176
L_1 Model	0.16493516394278585	0.1648177331264314	0.17346788350011652
L_inf Model	164.93516394278583	164.8177331264314	173.46788350011653

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.018642587661358498	0.02001829309830958	0.024125806674729574
L_1 Model	0.15567036086371305	0.1524182817878216	0.1927326475049339
L_inf Model	4.670110825911392	4.572548453634648	5.781979425148017

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.020180799149149487	0.020320438857294496	0.022039922824541994
L_1 Model	0.1628152895745409	0.16228214592026274	0.17120876553548878
L_inf Model	162.81528957454088	162.28214592026274	171.20876553548877

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.012865894449836377	0.014414279938540532	0.019452161055759195
L_1 Model	0.13043305250188955	0.11795181328724133	0.17526897719371312
L_inf Model	3.9129915750566866	3.53855439861724	5.258069315811394

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.02037042517126739	0.020465622769380725	0.021617497097444066

L\_1 Model | 0.16052964056666927 | 0.1602423983027416 | 0.1654438956850926  
L\_inf Model | 160.52964056666926 | 160.24239830274158 | 165.4438956850926

Table: Different training losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.010226737593526429 | 0.011075121017153458 | 0.013902433474798088  
L\_1 Model | 0.11486876252837201 | 0.11104785308596775 | 0.14340314471763035  
L\_inf Model | 3.4460628758511604 | 3.3314355925790324 | 4.30209434152891

Table: Different test losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.018300592889112014 | 0.01835691405099676 | 0.018935504233077053  
L\_1 Model | 0.15358876627185897 | 0.15339675942591843 | 0.15676695656329848  
L\_inf Model | 153.58876627185896 | 153.39675942591845 | 156.76695656329846

Table: Different training losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.009260912037011255 | 0.010280332864352879 | 0.015871585768407546  
L\_1 Model | 0.10858292627414928 | 0.10498921020935302 | 0.15822525404900772  
L\_inf Model | 3.2574877882244784 | 3.1496763062805906 | 4.746757621470231

Table: Different test losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.018240168775122047 | 0.0182870257431411 | 0.02290368628885629  
L\_1 Model | 0.1535094200814326 | 0.15326835949636258 | 0.17114399583432113  
L\_inf Model | 153.50942008143258 | 153.2683594963626 | 171.14399583432115

Table: Different training losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss

L\_2 Model | 0.02220277029661513 | 0.02584031645344972 | 0.0502212329603811  
L\_1 Model | 0.15667850641528322 | 0.15169452169877265 | 0.27185727280698824  
L\_inf Model | 4.700355192458496 | 4.5508356509631795 | 8.155718184209647

Table: Different test losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.01988313316528747 | 0.020027368616006104 | 0.02155888351241826  
L\_1 Model | 0.1575542407929551 | 0.1571006272833868 | 0.1645588145400685  
L\_inf Model | 157.5542407929551 | 157.1006272833868 | 164.55881454006848

Table: Different training losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.014421472616411465 | 0.016977330338835004 | 0.019249631273132742  
L\_1 Model | 0.13547743877935195 | 0.12973967982026366 | 0.17153352374126118  
L\_inf Model | 4.064323163380559 | 3.8921903946079097 | 5.1460057122378355

Table: Different test losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.02267065548708689 | 0.022808134040632134 | 0.024365055418285028  
L\_1 Model | 0.17062743818948659 | 0.17016398537839075 | 0.17696758756668993  
L\_inf Model | 170.62743818948658 | 170.16398537839075 | 176.96758756668993

Table: Different training losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.021215086344610765 | 0.030223260414757983 | 0.025197856811696347  
L\_1 Model | 0.1811874806866053 | 0.1735890516054824 | 0.1936347368094837  
L\_inf Model | 5.43562442059816 | 5.207671548164472 | 5.8090421042845115

Table: Different test losses for different models

Model	L <sub>2</sub> loss	L <sub>2</sub> loss	L <sub>inf</sub> loss
L <sub>2</sub> Model	0.01847228128726503	0.018499607061679312	0.022132731362703963
L <sub>1</sub> Model	0.15475535736425494	0.15458744157437543	0.17040967563475884
L <sub>inf</sub> Model	154.75535736425493	154.58744157437542	170.40967563475883

Table: Different training losses for different models

Model	L <sub>2</sub> loss	L <sub>2</sub> loss	L <sub>inf</sub> loss
L <sub>2</sub> Model	0.018675642445324023	0.022799453976208896	0.021249237484277327
L <sub>1</sub> Model	0.15840403778152898	0.14653847119027047	0.1783386597576561
L <sub>inf</sub> Model	4.752121133445869	4.396154135708114	5.3501597927296825

Table: Different test losses for different models

Model	L <sub>2</sub> loss	L <sub>2</sub> loss	L <sub>inf</sub> loss
L <sub>2</sub> Model	0.01973915612602359	0.01978525769133186	0.021245832115962135
L <sub>1</sub> Model	0.15868821520551887	0.158453491326447	0.16555146851689076
L <sub>inf</sub> Model	158.68821520551887	158.45349132644702	165.55146851689076

Table: Different training losses for different models

Model	L <sub>2</sub> loss	L <sub>2</sub> loss	L <sub>inf</sub> loss
L <sub>2</sub> Model	0.02293251134122	0.025397594673272947	0.04027351889424092
L <sub>1</sub> Model	0.16517167440591363	0.154894072032652	0.25290606895517576
L <sub>inf</sub> Model	4.955150232177409	4.646822160979561	7.587182068655272

Table: Different test losses for different models

Model	L <sub>2</sub> loss	L <sub>2</sub> loss	L <sub>inf</sub> loss
L <sub>2</sub> Model	0.019262919498569283	0.019335053497993686	0.024852463405811466
L <sub>1</sub> Model	0.15669056895360495	0.156468068616311	0.17941513379774102
L <sub>inf</sub> Model	156.69056895360495	156.468068616311	179.41513379774102

Table: Different training losses for different models

Model	L <sub>2</sub> loss	L <sub>2</sub> loss	L <sub>inf</sub> loss
L <sub>2</sub> Model	0.01325503741124588	0.015464410132610731	0.019444151845486705
L <sub>1</sub> Model	0.12931153046540325	0.1140333515913906	0.17703899688388977
L <sub>inf</sub> Model	3.8793459139620974	3.421000547741718	5.311169906516693

Table: Different test losses for different models

Model	L <sub>2</sub> loss	L <sub>2</sub> loss	L <sub>inf</sub> loss
L <sub>2</sub> Model	0.02093531043895335	0.020979305442617516	0.022591387398251693
L <sub>1</sub> Model	0.1628642859246258	0.16255642121448385	0.17080883344149406
L <sub>inf</sub> Model	162.8642859246258	162.55642121448386	170.80883344149404

Table: Different training losses for different models

Model	L <sub>2</sub> loss	L <sub>2</sub> loss	L <sub>inf</sub> loss
L <sub>2</sub> Model	0.00731219014310136	0.008170934327541112	0.008280707490287352
L <sub>1</sub> Model	0.10307037765003084	0.0955193656946656	0.11230224439893213
L <sub>inf</sub> Model	3.0921113295009253	2.865580970839968	3.369067331967964

Table: Different test losses for different models

Model	L <sub>2</sub> loss	L <sub>2</sub> loss	L <sub>inf</sub> loss
L <sub>2</sub> Model	0.02019884426718423	0.02025993821346957	0.02235793158861904
L <sub>1</sub> Model	0.16129303001282844	0.1610523580629436	0.16886848442409966
L <sub>inf</sub> Model	161.29303001282844	161.0523580629436	168.86848442409965

Table: Different training losses for different models

Model	L <sub>2</sub> loss	L <sub>2</sub> loss	L <sub>inf</sub> loss
L <sub>2</sub> Model	0.020260982026113556	0.028330768188348288	0.029569912276552663
L <sub>1</sub> Model	0.1492884416893378	0.1253787611597231	0.2082780713008079
L <sub>inf</sub> Model	4.478653250680134	3.761362834791693	6.248342139024237

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.01956095135176804	0.019612467225806222	0.022908676182677615
L_1 Model	0.1577077184100725	0.15742862351273054	0.17006363698262444
L_inf Model	157.7077184100725	157.42862351273055	170.06363698262444

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.01340753580099246	0.01598899975716276	0.02082383287608217
L_1 Model	0.13778452945078418	0.12550148110449652	0.18151797303406053
L_inf Model	4.133535883523526	3.7650444331348956	5.445539191021816

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.0189337528611844	0.018976438518614292	0.02206798711003176
L_1 Model	0.15514417631047098	0.1549863978124863	0.1686206397750051
L_inf Model	155.14417631047098	154.9863978124863	168.62063977500512

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.012575106315398061	0.013484720542825505	0.01448383674737769
L_1 Model	0.1342100108958772	0.12609891221409195	0.15235516443225358
L_inf Model	4.026300326876316	3.782967366422758	4.570654932967607

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.019471325962201386	0.019548782311113642	0.022447593521861715
L_1 Model	0.15478938764824562	0.15442358001644338	0.16693458104740957



L\_inf Model | 154.78938764824562 | 154.42358001644337 | 166.93458104740958

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.016453368497315594	0.017744454452130184	0.020173813620290398
L_1 Model	0.1488542319744318	0.14309015821585203	0.1745457024424775
L_inf Model	4.465626959232954	4.292704746475561	5.2363710732743245

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.01832766839189119	0.018381684700945474	0.019398262024238284
L_1 Model	0.15256588653419376	0.15231940155604323	0.1580627267186584
L_inf Model	152.56588653419377	152.31940155604323	158.0627267186584

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.018326357430113686	0.019887402011460154	0.02445502267020485
L_1 Model	0.1494618503182919	0.14279813978997694	0.18879570154670924
L_inf Model	4.483855509548757	4.283944193699308	5.663871046401277

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.02058546048009225	0.02070300733107181	0.02985364372736991
L_1 Model	0.16274790053546667	0.1622702667998228	0.1950208385206415
L_inf Model	162.74790053546667	162.2702667998228	195.0208385206415

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.02232958705158429	0.02608763906815111	0.03355029236896926

L\_1 Model | 0.1729497377177192 | 0.165111628179511 | 0.22798980123630078  
L\_inf Model | 5.188492131531576 | 4.95334884538533 | 6.839694037089023

Table: Different test losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.02036048342409574 | 0.020425728176678093 | 0.021708676170754306  
L\_1 Model | 0.16241458778577775 | 0.16203798789120744 | 0.1661627897229586  
L\_inf Model | 162.41458778577774 | 162.03798789120742 | 166.1627897229586

Table: Different training losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.015464924356253058 | 0.015672833934431286 | 0.020962212563825057  
L\_1 Model | 0.13633425213403333 | 0.1335258292455894 | 0.18176351851834477  
L\_inf Model | 4.090027564021 | 4.005774877367682 | 5.452905555550343

Table: Different test losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.018822352955328213 | 0.018858430736725842 | 0.021332442077822245  
L\_1 Model | 0.15511659861247307 | 0.15484805979980745 | 0.16496505126033256  
L\_inf Model | 155.11659861247307 | 154.84805979980746 | 164.96505126033256

Table: Different training losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.017142281333688322 | 0.018629269842613143 | 0.02256163620113681  
L\_1 Model | 0.15205409714245827 | 0.14671784190795473 | 0.1905110211451346  
L\_inf Model | 4.561622914273748 | 4.401535257238642 | 5.715330634354038

Table: Different test losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss

L\_2 Model | 0.020877138635673562 | 0.02096253500350962 | 0.024002585690544278  
L\_1 Model | 0.16431975747381775 | 0.16395742400909197 | 0.1772519853945032  
L\_inf Model | 164.31975747381776 | 163.95742400909197 | 177.2519853945032

Table: Different training losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.021221285142853288 | 0.02256200126571976 | 0.030872563895701036  
L\_1 Model | 0.15963315453181617 | 0.14898372448629285 | 0.20880224709718911  
L\_inf Model | 4.788994635954485 | 4.469511734588785 | 6.264067412915673

Table: Different test losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.019413705888568618 | 0.019452660625268233 | 0.021110059531041846  
L\_1 Model | 0.15580619547705224 | 0.15561469520600282 | 0.163214018161097  
L\_inf Model | 155.80619547705223 | 155.61469520600284 | 163.21401816109702

Table: Different training losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.009611052805368522 | 0.011957372041937801 | 0.010156503223820753  
L\_1 Model | 0.11677589092745601 | 0.1074277789294698 | 0.12016379485248795  
L\_inf Model | 3.50327672782368 | 3.222833367884094 | 3.6049138455746386

Table: Different test losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.01874280927081187 | 0.018861036773991847 | 0.02283522174277905  
L\_1 Model | 0.15509670726406072 | 0.1547606285728827 | 0.1736731193769552  
L\_inf Model | 155.0967072640607 | 154.7606285728827 | 173.6731193769552

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.01941765571628717	0.026106354664568118	0.021413583836105733
L_1 Model	0.16925702085922964	0.1534093925421335	0.18125751143425836
L_inf Model	5.07771062577689	4.602281776264006	5.437725343027751

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.021877849025272986	0.021910623231331527	0.025744459140189527
L_1 Model	0.16630039395472765	0.16611657920853506	0.1838071129723158
L_inf Model	166.30039395472764	166.11657920853506	183.8071129723158

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.01820648675433529	0.019475301640558648	0.0199614121602102
L_1 Model	0.13900983648183546	0.13267048369846793	0.14937896612859358
L_inf Model	4.170295094455064	3.9801145109540377	4.4813689838578075

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.01998291713682894	0.0200305126997382	0.025115659143989843
L_1 Model	0.15946625027343106	0.15929428406880947	0.17929760357975547
L_inf Model	159.46625027343106	159.29428406880947	179.29760357975547

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.018450985689664766	0.02087267649093504	0.020250731975862378
L_1 Model	0.1571344779481045	0.15245249193865174	0.16365067773261666
L_inf Model	4.714034338443136	4.573574758159552	4.9095203319784995

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.020546212458750567	0.020611762462718862	0.022710315086175166
L_1 Model	0.16347898054210772	0.1632613760823652	0.1723273707717182
L_inf Model	163.4789805421077	163.26137608236522	172.3273707717182

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.012538260998224924	0.013895753748328264	0.015483867542945753
L_1 Model	0.11798899370380368	0.10929116951202014	0.14213990332185902
L_inf Model	3.5396698111141105	3.278735085360604	4.264197099655771

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.020644562033257416	0.020744167613941007	0.024420418653756364
L_1 Model	0.16224740281800512	0.16191510198551226	0.1773493558883998
L_inf Model	162.24740281800513	161.91510198551225	177.3493558883998

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.014883050848255376	0.017535087698325773	0.016990602094114553
L_1 Model	0.14722864470045113	0.14203253923304604	0.15837830514427959
L_inf Model	4.416859341013534	4.260976176991381	4.751349154328388

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.020099003711389618	0.020196375013712818	0.022034123636716002
L_1 Model	0.16272194869271706	0.1624966577191577	0.16967216137353625
L_inf Model	162.72194869271706	162.4966577191577	169.67216137353626

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.0136741696460227	0.01471764930070211	0.01712761555472535
L_1 Model	0.13781504559071364	0.13326260289213862	0.15996108778287324
L_inf Model	4.134451367721409	3.9978780867641586	4.798832633486197

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.019633634041891754	0.019699209867904837	0.022072202249733375
L_1 Model	0.1584848456998949	0.15828531303866655	0.17049934711065798
L_inf Model	158.48484569989492	158.28531303866654	170.49934711065796

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.012617784579312749	0.014634409479186823	0.015955675183031877
L_1 Model	0.13545522653070446	0.12416364927752394	0.157196208014388
L_inf Model	4.063656795921134	3.724909478325718	4.71588624043164

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.021161847293423974	0.021214443359054737	0.03144216725400376
L_1 Model	0.16318352084404883	0.16292907513451618	0.2009338669405303
L_inf Model	163.18352084404884	162.92907513451618	200.93386694053032

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.01121163616597836	0.011956096584437192	0.014450725333954794
L_1 Model	0.12182601411781875	0.11368820529382803	0.1457801954867022

L\_inf Model | 3.6547804235345627 | 3.410646158814841 | 4.373405864601066

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.022285461649996674	0.022318869321018616	0.027674151288457717
L_1 Model	0.16646826389307173	0.16629088731401998	0.19087537906643134
L_inf Model	166.46826389307174	166.29088731401998	190.87537906643135

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.024255218524903328	0.028876679324237924	0.03269146238872828
L_1 Model	0.18132797820556104	0.16116862965291773	0.22144725297570889
L_inf Model	5.439839346166831	4.835058889587532	6.643417589271267

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.01926795694083163	0.01934980466560897	0.030007287983810974
L_1 Model	0.15617838831543523	0.15583534462550094	0.19751518601072132
L_inf Model	156.17838831543523	155.83534462550094	197.51518601072132

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.01642407941390444	0.01925072510977266	0.018515770228463558
L_1 Model	0.15483367644250573	0.1482198068239102	0.1771632520842692
L_inf Model	4.645010293275172	4.446594204717306	5.314897562528076

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.019539903232658286	0.01955678099833178	0.02223026953356725

L\_1 Model | 0.15461631475725443 | 0.1545372285219442 | 0.16558206842677872  
L\_inf Model | 154.61631475725443 | 154.5372285219442 | 165.58206842677873

Table: Different training losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.016025211771295716 | 0.018334721101934136 | 0.021889805412379417  
L\_1 Model | 0.1503219529777137 | 0.13853659566944412 | 0.19133045407385774  
L\_inf Model | 4.509658589331411 | 4.1560978700833235 | 5.739913622215732

Table: Different test losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.020929762385419957 | 0.020975577966051342 | 0.02332256032391784  
L\_1 Model | 0.16463303084717876 | 0.16438821190898673 | 0.17482670808916292  
L\_inf Model | 164.63303084717876 | 164.38821190898673 | 174.82670808916293

Table: Different training losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.015394597456514674 | 0.0178460426789773 | 0.017624100138851077  
L\_1 Model | 0.1450437320294986 | 0.13437730447460156 | 0.16559210234006785  
L\_inf Model | 4.351311960884958 | 4.031319134238046 | 4.967763070202036

Table: Different test losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.02011536694157592 | 0.02013040397831599 | 0.021389403941831073  
L\_1 Model | 0.1595135409558534 | 0.15942949345067664 | 0.1644217043398826  
L\_inf Model | 159.51354095585341 | 159.42949345067663 | 164.4217043398826

Table: Different training losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss



L\_2 Model | 0.014212430783113985 | 0.018607694331048488 | 0.02102614307949245  
L\_1 Model | 0.13845517509548974 | 0.12661791169980274 | 0.18676048818191818  
L\_inf Model | 4.153655252864692 | 3.7985373509940823 | 5.602814645457546

Table: Different test losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.019487957757413896 | 0.019587542139139952 | 0.023490403613730115  
L\_1 Model | 0.15421246003999886 | 0.15383892735793964 | 0.17223159029975987  
L\_inf Model | 154.21246003999886 | 153.83892735793964 | 172.2315902997599

Table: Different training losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.020257043417988882 | 0.022506615752218427 | 0.0221413343321421  
L\_1 Model | 0.16807247500780223 | 0.15757741660607477 | 0.17897020973821143  
L\_inf Model | 5.0421742502340665 | 4.727322498182243 | 5.369106292146343

Table: Different test losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.02000316044272387 | 0.020017756301345658 | 0.028595818027440222  
L\_1 Model | 0.15751410287189047 | 0.15739369537646766 | 0.1907444525806079  
L\_inf Model | 157.51410287189046 | 157.39369537646766 | 190.7444525806079

Table: Different training losses for different models

Model | L\_2 loss | L\_2 loss | L\_inf loss  
L\_2 Model | 0.015319153784914408 | 0.016511243401664433 | 0.02170489548230377  
L\_1 Model | 0.12748815477375872 | 0.11982831693335408 | 0.16703901854832484  
L\_inf Model | 3.8246446432127614 | 3.5948495080006224 | 5.011170556449745

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.020681091247583164	0.020788298340718575	0.02363020606328643
L_1 Model	0.16382165989881442	0.16355250844388874	0.1758101816371747
L_inf Model	163.82165989881443	163.55250844388874	175.8101816371747

Table: Different training losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.01172373047121488	0.01296918189487667	0.02022248294213947
L_1 Model	0.12133830889560228	0.11791427160145775	0.17715897624559848
L_inf Model	3.640149266868068	3.537428148043732	5.314769287367954

Table: Different test losses for different models

Model	L_2 loss	L_2 loss	L_inf loss
L_2 Model	0.02041044688464786	0.020456250711245783	0.026553992242393767
L_1 Model	0.16101776823280192	0.16086314626903786	0.18451582220849053
L_inf Model	161.01776823280193	160.86314626903786	184.51582220849053

1e)

What I seen in the tables is that I realized that the difference in the training and test losses tables are that the test table have more larger values than in the training table. This is because in the test table we are generating a lot more test data points which causes our model to be more accurate. Also, in the L\_inf model, the values are higher than in the other models. It is because L\_inf norm is going off the maximum value, making it more normal for it to be high. It is influence by the magnitude of the highest value, so outliers very easily cause it to diverge.

2d)

Table: Training accuracies with different hyper-parameters

n Train Accuracy	d Train Accuracy	eta Train Accuracy
10	1   9.685454059110057e+110	0.1   -8.544383053831851e+104
50	6.681187863472287e+78   2   8.264222796482778e+103	1.0   2.710698337871812e+209
100	1.3264423843113885e+108   4   1.399214959758374e+108	10.0   nan
200	9.257088690786201e+145   8   -1.115438668225958e+103	100.0   nan

Table: Test accuracies with different hyper-parameters

n	Train Accuracy	d	Train Accuracy	eta	Train Accuracy
10	3.5398926683963936e+210	1	3.874201127686805e+217	0.1	-2.3995542115574723e+214
50	-6.092265290698519e+211	2	2.4318346396293315e+214	1.0	nan
100	6.531618010146513e+210	4	1.052244909446209e+211	10.0	nan
200	7.849208802619096e+218	8	-2.7914629345974663e+208	100.0	nan

Table: Training accuracies with different hyper-parameters

n	Train Accuracy	d	Train Accuracy	eta	Train Accuracy
10	-3318337365.0413804	1	3.166171798797541e+108	0.1	4.508780977663195e+109
50	2.7797360116551276e+77	2	3.607196350170701e+113	1.0	1.3575235219470153e+204
100	-7.336865284021071e+107	4	-7.02001164203185e+104	10.0	7.71688856270352e+305
200	-5.48717545945836e+141	8	1.8614665094700543e+106	100.0	nan

Table: Test accuracies with different hyper-parameters

n	Train Accuracy	d	Train Accuracy	eta	Train Accuracy
10	3.980400111873265e+210	1	-1.2355647798273682e+221	0.1	2.5293258269495735e+214
50	2.366454113395718e+211	2	5.505183994251537e+213	1.0	nan
100	9.808201183776644e+213	4	1.2861791272388231e+211	10.0	nan
200	4.936166010965149e+218	8	-2.4592667474051196e+208	100.0	nan

Table: Training accuracies with different hyper-parameters

n	Train Accuracy	d	Train Accuracy	eta	Train Accuracy
10	2893601962.2312965	1	1.1794132549973481e+111	0.1	2.2901452273076475e+113
50	-3.705764488902992e+85	2	-7.795352480019006e+110	1.0	1.1571776433939313e+205
100	-5.3891732936010125e+107	4	-1.0515009578453442e+108	10.0	nan
200	-8.980355782685844e+136	8	1.7423283717480669e+109	100.0	nan

Table: Test accuracies with different hyper-parameters

n	Train Accuracy	d	Train Accuracy	eta	Train Accuracy
10	-1.0171551261277492e+208	1	2.9305768985817667e+217	0.1	1.1961328084877877e+213
50	6.375877122642293e+211	2	3.68075236621739e+213	1.0	nan
100	5.797072998795849e+212	4	-1.2187543236836965e+212	10.0	nan
200	3.707405660964195e+218	8	-1.6506216795273347e+207	100.0	nan

Table: Training accuracies with different hyper-parameters

n	Train Accuracy	d	Train Accuracy	eta	Train Accuracy
10	107392.49930268108	1	2.023251110142703e+114	0.1	-3.0315126380895086e+111
50	8.038428206286163e+76	2	1.9257604389927175e+110	1.0	-1.929502896009264e+213
100	3.6429957695797507e+108	4	1.3828508737098547e+107	10.0	nan
200	-1.2886023254284662e+135	8	1.3486832206866585e+106	100.0	nan

Table: Test accuracies with different hyper-parameters

n	Train Accuracy	d	Train Accuracy	eta	Train Accuracy
10	-2.0864123594224526e+209	1	5.923967675270361e+218	0.1	-2.647238793252183e+214
50	9.214106087317534e+211	2	2.8130425159078393e+215	1.0	nan
100	-3.0975112776816678e+212	4	1.6044731437039901e+211	10.0	nan
200	3.8370717189394284e+216	8	3.198155354712311e+207	100.0	nan

Table: Training accuracies with different hyper-parameters

n	Train Accuracy	d	Train Accuracy	eta	Train Accuracy
10	0.8806395024314195	1	5.62337913758968e+114	0.1	3.451683832318016e+103
50	1.1263503627056595e+82	2	-2.572769313820822e+110	1.0	7.052244394804065e+214
100	1.206663493917033e+116	4	-3.9728119054783846e+100	10.0	2.820695859868985e+307
200	-1.9418084651194348e+142	8	3.535002289781789e+106	100.0	nan

Table: Test accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10	-7.849990509766216e+208	1	-2.6863715107312336e+219	0.1	5.285532934298051e+214
50	-1.5137229109368103e+211	2	-3.768247995947978e+215	1.0	nan
100	1.4880774603231338e+212	4	2.650023365220947e+210	10.0	nan
200	2.2801852272284108e+216	8	3.4594232544168816e+207	100.0	nan

Table: Training accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10	7169186344.458417	1	8.648674473840346e+112	0.1	4.121593375930555e+107
50	1.8406326897815568e+86	2	-5.136207851112755e+109	1.0	2.2931719964554517e+210
100	3.0911635444732773e+114	4	7.732866276359234e+100	10.0	nan
200	7.360918496594647e+141	8	1.8549240146478945e+104	100.0	nan

Table: Test accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10	-7.265877925408103e+207	1	1.5448797152692444e+220	0.1	2.958408790538185e+215
50	8.854418333435177e+211	2	1.6531413354282244e+213	1.0	nan
100	1.1871220490486944e+215	4	2.790184303947682e+211	10.0	nan
200	1.7962305817881252e+220	8	7.346571867308058e+208	100.0	nan

Table: Training accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10	16831699355387.305	1	2.1904248402060403e+115	0.1	1.1644055635502312e+108
50	3.6603538849979154e+76	2	-1.6624087513223502e+110	1.0	9.70667384054138e+202
100	1.3330069335761428e+107	4	3.115565636912145e+107	10.0	nan
200	7.69222027054193e+141	8	-5.2427165324156814e+104	100.0	nan

Table: Test accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10	1.051046737928901e+211   1  4.9065539887242374e+219   0.1   -1.653656851678039e+213
50	-5.654124985922029e+210   2  7.350139682038665e+211   1.0   nan
100	-1.4863750228315118e+214   4  5.1191269277506893e+210   10.0   nan
200	-2.389906198734426e+218   8   -4.4050371417359185e+208   100.0   nan

Table: Training accuracies with different hyper-parameters

	n Train Accuracy	d Train Accuracy	eta Train Accuracy
10	604311584.5062443   1  4.765646026329451e+108   0.1   1.6342563739725154e+113		
50	1.4002301159201677e+79   2  1.74064274492961e+107   1.0   7.290943358391204e+206		
100	5.263067743185593e+102   4  6.070961962595482e+109   10.0   nan		
200	2.7991295952958515e+139   8   -8.091620930121673e+101   100.0   nan		

Table: Test accuracies with different hyper-parameters

	n Train Accuracy	d Train Accuracy	eta Train Accuracy
10	9.11299713820462e+210   1  3.128123255128227e+216   0.1   -6.016825260606337e+213		
50	-1.5177524259339362e+212   2  1.0302360944691367e+216   1.0   nan		
100	-7.262099196146719e+213   4  9.751703706378137e+210   10.0   nan		
200	-9.134196693946885e+218   8   -4.851825641379698e+207   100.0   nan		

Table: Training accuracies with different hyper-parameters

	n Train Accuracy	d Train Accuracy	eta Train Accuracy
10	1.9213669396576416   1  1.0889921853777e+109   0.1   4.193558815286653e+111		
50	-3.797729510521591e+78   2  4.152797683150825e+109   1.0   1.222285595272223e+209		
100	1.9350171191799553e+103   4  2.0626817998779343e+104   10.0   8.775151258826349e+304		
200	-1.297090743320634e+147   8   -6.915344458132493e+101   100.0   nan		

Table: Test accuracies with different hyper-parameters

	n Train Accuracy	d Train Accuracy	eta Train Accuracy
10	1.9345517841500225e+208   1  4.024223352144386e+218   0.1   8.675006463806541e+213		

50		3.1838202208019717e+211		2		2.9888995951769885e+214		1.0		nan
100		8.402143598777942e+212		4		6.853861329494663e+209		10.0		nan
200		7.989022062043416e+215		8		6.107049126319675e+207		100.0		nan

Table: Training accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy			
10		-1.2158129084230158e+37		1		-1.4588951973536691e+121		0.1		2.713803304589833e+109
50		-9.503662539638893e+75		2		9.279016782561824e+113		1.0		1.5040388982981859e+208
100		1.586212234542708e+106		4		3.7236351656455037e+105		10.0		nan
200		1.361740270081602e+144		8		1.0967412564621194e+103		100.0		nan

Table: Test accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy			
10		1.4570704920739101e+209		1		2.307302537484164e+217		0.1		-1.2564702067557648e+215
50		1.284207519250175e+211		2		5.3535119797824e+213		1.0		nan
100		6.735949987892597e+213		4		-3.378422757447662e+210		10.0		nan
200		3.231816463011576e+218		8		3.4776581412881606e+207		100.0		nan

Table: Training accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy			
10		369.30154935034744		1		2.2929618409431954e+114		0.1		-6.8678779097729604e+112
50		-1.4600620926110207e+90		2		3.2441951084455915e+112		1.0		6.0218615505159605e+208
100		4.056319748890233e+113		4		-4.91576298143231e+110		10.0		7.128723296597454e+300
200		7.343582558530846e+136		8		3.0773573560178103e+103		100.0		nan

Table: Test accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy			
10		3.0553463482842495e+209		1		5.727152937708778e+217		0.1		7.242680421504799e+211
50		1.791273588533185e+209		2		6.698400772240744e+216		1.0		nan

100	2.637888973470054e+214	4	5.362010610364563e+212	10.0	nan
200	1.0062654705439546e+217	8	4.51422202693039e+206	100.0	nan

Table: Training accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy
10	-6.613615170608433e+16		1	3.636108310071247e+107		0.1	1.3228798845283705e+108
50	7.825675471999792e+86		2	-7.907676858694154e+111		1.0	1.5717353742435615e+210
100	-1.0231438174019459e+109		4	1.8902635794979782e+107		10.0	nan
200	8.673341591101821e+138		8	3.908486745465365e+101		100.0	nan

Table: Test accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy
10	1.7218360130071745e+212		1	1.7486954899078707e+217		0.1	9.130514752784957e+215
50	1.109247365412263e+208		2	5.675071366886216e+214		1.0	nan
100	2.7405801781388564e+212		4	-2.857043007404294e+210		10.0	nan
200	2.2322209828721466e+219		8	5.834405576790464e+207		100.0	nan

Table: Training accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy
10	93765.50874636958		1	5.591623561240852e+115		0.1	1.8665036772152743e+108
50	5.474092890215978e+81		2	4.1953167007143043e+104		1.0	-8.54754834614123e+214
100	1.6940933148244257e+113		4	2.7943629163097755e+112		10.0	1.0269811510907708e+307
200	4.8134180108812044e+138		8	5.5632919507235984e+101		100.0	nan

Table: Test accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy
10	4.162054515785872e+207		1	-1.0107209325887732e+220		0.1	-1.551240971677313e+213
50	-2.440739320815385e+212		2	-4.3275515220302434e+212		1.0	nan



100	1.0214416791741383e+214	4	1.1218162332069701e+209	10.0	nan
200	2.8478759007582135e+218	8	1.0217709028623184e+207	100.0	nan

Table: Training accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy
10	281053.6892717875	1	5.645626436971277e+111	0.1	5.918078726822386e+112		
50	-4.4842570911100263e+73	2	5.320968802608037e+108	1.0	4.789168087923847e+205		
100	9.845635966644243e+104	4	2.931309934417528e+110	10.0	nan		
200	6.777737240847135e+139	8	7.006271666891828e+100	100.0	nan		

Table: Test accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy
10	-6.550946717218225e+210	1	6.42093691031691e+217	0.1	-2.0928712242286923e+214		
50	-1.0127742946069809e+211	2	2.54630935660651e+213	1.0	nan		
100	1.4886830392030376e+212	4	-3.524732988256185e+209	10.0	nan		
200	3.269008876202718e+218	8	3.416337185103225e+208	100.0	nan		

Table: Training accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy
10	-1.7411448468616157e+26	1	7.788495751752272e+110	0.1	1.3477699699231438e+118		
50	-6.602253990349314e+74	2	-1.536240861339966e+108	1.0	2.332964714724819e+202		
100	-1.0359795721416109e+111	4	1.0374121538805898e+104	10.0	nan		
200	1.464593455754941e+138	8	1.1150805981974087e+104	100.0	nan		

Table: Test accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy
10	1.022360393823991e+209	1	9.78054272589155e+216	0.1	-2.764253585313786e+214		
50	2.063383113331989e+212	2	7.468935963226194e+214	1.0	nan		
100	3.5350446318700576e+214	4	5.033577207129591e+210	10.0	nan		

200 | -1.7165487601080114e+218 | 8 | 2.0070746927034743e+208 | 100.0 | nan

Table: Training accuracies with different hyper-parameters

	n Train Accuracy		d Train Accuracy		eta Train Accuracy
10	4.2232543210113676e+21		1   1.315384268233333e+108		0.1   6.544747501168845e+110
50	2.6580852886768416e+79		2   -4.674470909301346e+110		1.0   -2.693747753752943e+201
100	-3.1838828096894275e+109		4   -6.873449921082053e+104		10.0   9.285412314020703e+306
200	1.32032147034131e+139		8   9.844447608996356e+101		100.0   nan

Table: Test accuracies with different hyper-parameters

	n Train Accuracy		d Train Accuracy		eta Train Accuracy
10	-1.35836562407335e+210		1   1.1177644950917274e+219		0.1   -8.436808598920422e+213
50	1.5945489511751028e+213		2   4.365942154149638e+214		1.0   nan
100	-1.1184438914754177e+216		4   3.558188179927858e+211		10.0   nan
200	-3.8687146062733124e+218		8   8.92796504347209e+207		100.0   nan

Table: Training accuracies with different hyper-parameters

	n Train Accuracy		d Train Accuracy		eta Train Accuracy
10	6.004562332051188e+19		1   1.5492059244547805e+117		0.1   1.806185734240266e+109
50	-1.0661866672818016e+82		2   1.696698562084778e+108		1.0   1.1410016201781382e+214
100	5.005379384186941e+110		4   2.284474418146504e+104		10.0   5.946013130444508e+300
200	9.480757368791391e+137		8   -2.426680625277647e+104		100.0   nan

Table: Test accuracies with different hyper-parameters

	n Train Accuracy		d Train Accuracy		eta Train Accuracy
10	-6.330147690445354e+207		1   6.460173730482653e+216		0.1   6.565702858109736e+212
50	1.1959313927514087e+210		2   -2.6805803206344567e+214		1.0   nan
100	-9.877670791508315e+213		4   6.233657905821862e+209		10.0   nan
200	1.8390672640608714e+219		8   8.407436719003657e+207		100.0   nan

Table: Training accuracies with different hyper-parameters

	n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy		
10		4.463864438462133e+17		1		-2.2994293350976792e+115		0.1		2.0602014693139175e+110
50		2.4518736071830122e+73		2		3.611264330407994e+104		1.0		-7.183071168454619e+207
100		5.1043433579896994e+109		4		4.846879378229176e+109		10.0		nan
200		3.4774105543266276e+139		8		5.7709329019467184e+103		100.0		nan

Table: Test accuracies with different hyper-parameters

	n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy		
10		2.184400423183505e+210		1		-1.400069004604957e+217		0.1		2.2731287880053356e+212
50		2.978914066261042e+211		2		1.279711897554009e+213		1.0		nan
100		2.8838329380073256e+213		4		5.690180558628837e+210		10.0		nan
200		9.987767146048197e+216		8		1.3741338388989592e+207		100.0		nan

Table: Training accuracies with different hyper-parameters

	n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy		
10		5.416661291547309e+28		1		-4.4562476857954064e+108		0.1		-1.3841717747749747e+108
50		3.0397970749549805e+72		2		1.1147903772147834e+112		1.0		-9.426090419059176e+207
100		2.7178090530671017e+104		4		-2.5521788178587846e+102		10.0		nan
200		7.567472162832822e+135		8		2.24479689231959e+104		100.0		nan

Table: Test accuracies with different hyper-parameters

	n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy		
10		1.7696698816820767e+210		1		2.1409649595058696e+221		0.1		1.6940814763926445e+214
50		1.8449120432180036e+211		2		7.8992811982243e+212		1.0		nan
100		-5.137600112268776e+214		4		-2.7808718341841046e+210		10.0		nan
200		5.19271968526884e+219		8		-1.6817045450857308e+207		100.0		nan

Table: Training accuracies with different hyper-parameters

	n	Train Accuracy	d	Train Accuracy	eta	Train Accuracy
10		1.3081517575880001e+21		1		1.275832215457325e+117   0.1   4.486809063271805e+112
50		6.904284166852322e+74		2		3.9912626719178105e+107   1.0   -1.4110303430508433e+208
100		-8.495042357197093e+104		4		6.748545228130605e+101   10.0   3.621219300988426e+302
200		-1.4553813962741192e+145		8		4.223424900655802e+103   100.0   nan

Table: Test accuracies with different hyper-parameters

	n	Train Accuracy	d	Train Accuracy	eta	Train Accuracy
10		6.299122428670017e+210		1		4.444501808544312e+218   0.1   3.05906638616829e+213
50		-8.40725265096572e+212		2		9.875077764774303e+213   1.0   nan
100		-1.960400108375862e+213		4		-9.045174176831048e+210   10.0   nan
200		2.787960328457965e+218		8		-2.93964519595011e+207   100.0   nan

Table: Training accuracies with different hyper-parameters

	n	Train Accuracy	d	Train Accuracy	eta	Train Accuracy
10		5.971280466861903e+16		1		-9.543520662744071e+114   0.1   -1.1904511180946586e+112
50		-9.065774877191779e+80		2		4.3954484618606835e+108   1.0   3.122511258791159e+208
100		2.6111564744706916e+110		4		3.7050434737996586e+105   10.0   -inf
200		8.419788350625676e+140		8		1.664052932136176e+107   100.0   nan

Table: Test accuracies with different hyper-parameters

	n	Train Accuracy	d	Train Accuracy	eta	Train Accuracy
10		6.5545010985415465e+209		1		3.887616770139285e+219   0.1   7.108531614400062e+212
50		3.84468874402702e+209		2		2.0601701668113042e+215   1.0   nan
100		3.5125150936876847e+214		4		7.457275969545165e+210   10.0   nan
200		-1.444508139570283e+218		8		1.6144107817204119e+208   100.0   nan

Table: Training accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10	96080953602771.42	1	-2.8856252522796293e+111	0.1	7.976899098554747e+105
50	2.901886840459323e+80	2	-2.0954035273116273e+111	1.0	2.6022679607400807e+211
100	-3.6422325320145064e+109	4	4.2034436203032323e+107	10.0	nan
200	-4.9125478066632345e+144	8	3.89851294694231e+103	100.0	nan

Table: Test accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10	1.1643058351439338e+208	1	3.27699898110098e+220	0.1	9.513158949294682e+213
50	7.822256053476066e+210	2	-6.139011785140284e+213	1.0	nan
100	7.356531409251062e+211	4	-1.7311281442287552e+211	10.0	nan
200	1.8655079973969728e+215	8	1.0196648554552669e+208	100.0	nan

Table: Training accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10	1.0806436752361614	1	-8.783773344799516e+122	0.1	-4.727471646490108e+110
50	2.55455457682823e+66	2	1.9571558329299465e+109	1.0	1.019694057727286e+209
100	2.7954559472035576e+109	4	6.864728302997345e+111	10.0	nan
200	-1.3331856187153733e+138	8	1.7382459192618727e+101	100.0	nan

Table: Test accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10	-5.952485158625767e+210	1	3.0989980890835124e+216	0.1	1.1396236682174333e+215
50	6.551282890587061e+210	2	4.9603728214339904e+213	1.0	nan
100	1.7812736837398793e+211	4	5.437571887476225e+210	10.0	nan
200	1.742712999849798e+218	8	-8.099783088221839e+208	100.0	nan

Table: Training accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10	2.4581409727839834	1	-9.870213524123831e+116	0.1	6.090673579694257e+103
50	3.5664453137457625e+82	2	-3.8932616089332465e+110	1.0	8.41569374725559e+212
100	4.0412462465080466e+101	4	-6.130105602839589e+111	10.0	nan
200	-3.0486514375963774e+139	8	-6.91580643173801e+101	100.0	nan

Table: Test accuracies with different hyper-parameters

	n Train Accuracy		d Train Accuracy		eta Train Accuracy
10	1.5033872084565555e+207		1	8.25132061536061e+219	0.1   1.0086416038793612e+214
50	1.1835781469004135e+213		2	-1.0829870080328593e+215	1.0   nan
100	2.4825890211018316e+213		4	-1.1504021284198792e+211	10.0   nan
200	-6.850262523910636e+217		8	-1.255738453676547e+207	100.0   nan

Table: Training accuracies with different hyper-parameters

	n Train Accuracy		d Train Accuracy		eta Train Accuracy
10	1.0459879347748593e+22		1	-1.5548132173685076e+114	0.1   9.411760834298559e+111
50	-1.1667229186183717e+75		2	5.8626950103773e+104	1.0   3.227889899749799e+210
100	-4.2675632120937486e+111		4	6.505450535225832e+103	10.0   nan
200	1.715028982321362e+141		8	1.8900052182594408e+106	100.0   nan

Table: Test accuracies with different hyper-parameters

	n Train Accuracy		d Train Accuracy		eta Train Accuracy
10	1.0302270320230998e+208		1	-1.6648972911765418e+218	0.1   1.3022526295677732e+215
50	6.908723272189485e+212		2	1.869094607488309e+213	1.0   nan
100	6.488620472178913e+215		4	4.218356271187507e+208	10.0   nan
200	1.8236235160360646e+218		8	4.9096400734993924e+207	100.0   nan

Table: Training accuracies with different hyper-parameters

	n Train Accuracy		d Train Accuracy		eta Train Accuracy
10	0.8259596472464922		1	4.5534017994871324e+113	0.1   1.3983922416533835e+109

50		-8.713205564404602e+79		2		6.185154945556519e+112		1.0		-1.0480319111748471e+212
100		-1.2317504409596497e+114		4		5.717568339582999e+106		10.0		nan
200		1.9453838789681044e+140		8		-1.4211414275318612e+109		100.0		nan

Table: Test accuracies with different hyper-parameters

	n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy		
10		3.0131470611271984e+210		1		2.069218695638281e+216		0.1		-4.0455971660564436e+213
50		2.3351190451570568e+212		2		1.9148447677438194e+215		1.0		nan
100		7.781092152893194e+215		4		1.779746920696795e+210		10.0		nan
200		-7.256395786793258e+216		8		3.0330009375994767e+207		100.0		nan

Table: Training accuracies with different hyper-parameters

	n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy		
10		1.214714684759575e+16		1		-5.8879080865327996e+109		0.1		1.1237494793981428e+113
50		9.516434292321881e+75		2		2.0619736235817875e+107		1.0		2.1050079409442934e+212
100		3.2558651269199755e+111		4		6.088694433609547e+107		10.0		nan
200		-2.3238514268134593e+134		8		-4.995020601090372e+102		100.0		nan

Table: Test accuracies with different hyper-parameters

	n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy		
10		1.0358586633536702e+209		1		1.4167257896385341e+217		0.1		-1.0011127949007629e+215
50		-9.513553600448536e+211		2		1.9155759774702817e+214		1.0		nan
100		5.559195479774964e+212		4		2.4907181092959023e+209		10.0		nan
200		4.250045475640002e+218		8		2.9997499179664157e+207		100.0		nan

Table: Training accuracies with different hyper-parameters

	n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy		
10		0.5298605665065259		1		3.8867896088192975e+106		0.1		-1.3648512417160558e+108
50		-4.480361267793741e+82		2		1.8913344803195262e+110		1.0		2.5206626072607245e+204

100		1.943403859583451e+109		4		1.9966069607499632e+101		10.0		-inf
200		9.812805474188259e+130		8		5.197402083305349e+101		100.0		nan

Table: Test accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy			
10		2.100028656327172e+210		1		1.4534942347165304e+219		0.1		1.6027074417925677e+214
50		6.556374842958114e+211		2		-2.311957127250301e+213		1.0		nan
100		-5.55502602983419e+214		4		-9.858502031273959e+209		10.0		nan
200		1.4128438571884584e+217		8		-2.9005651626283476e+207		100.0		nan

Table: Training accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy			
10		6.662633180153943		1		1.5643986099997502e+111		0.1		6.457176337833762e+113
50		3.7966841985424504e+87		2		3.1053309474634935e+117		1.0		2.9913855649715425e+210
100		2.6003066205814703e+114		4		-1.6626171325241104e+102		10.0		nan
200		9.41027285331256e+136		8		4.070427230184081e+101		100.0		nan

Table: Test accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy			
10		7.259757060088334e+210		1		1.4802657539753507e+218		0.1		3.308143747502485e+213
50		1.0147457753309175e+211		2		2.0066948410929748e+216		1.0		nan
100		6.523961095487844e+212		4		2.2957881249161795e+209		10.0		nan
200		2.5123868638113626e+219		8		3.0478910452528077e+207		100.0		nan

Table: Training accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy			
10		14777339353034.037		1		7.984475886084914e+118		0.1		-1.8338244511068686e+111
50		-1.661088823243705e+82		2		5.945680638679516e+108		1.0		1.0989444483257659e+212
100		2.0921796112122514e+109		4		1.79510381198169e+110		10.0		2.761577293065664e+304



200 | -9.014625911131131e+143 | 8 | -6.08676889924308e+103 | 100.0 | nan

Table: Test accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10 | 2.7940645649589543e+210 | 1 | -5.763730418765131e+218 | 0.1 | 8.400751404760248e+212

50 | 2.92053683157505e+210 | 2 | -5.046987558929888e+214 | 1.0 | nan

100 | 2.460141049044527e+211 | 4 | -7.867348303133868e+209 | 10.0 | nan

200 | -1.829395452311602e+218 | 8 | -3.230658074339598e+207 | 100.0 | nan

Table: Training accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10 | 4.956376263776349e+18 | 1 | 1.3856175511780997e+118 | 0.1 | 1.7666137086109734e+114

50 | 8.604947546469333e+81 | 2 | 8.341936260544356e+114 | 1.0 | 8.556716997032355e+200

100 | 3.234801967759543e+109 | 4 | -1.3485171869742768e+112 | 10.0 | -inf

200 | 2.0939370194680003e+137 | 8 | 1.4336318594252256e+109 | 100.0 | nan

Table: Test accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10 | 8.925692878064917e+208 | 1 | -1.5512516441360568e+219 | 0.1 | 3.686705957043992e+212

50 | 1.2768500492375363e+211 | 2 | 1.893513664323486e+213 | 1.0 | nan

100 | -2.304426762908139e+216 | 4 | 7.378270356673428e+208 | 10.0 | nan

200 | 8.167298458565111e+215 | 8 | -3.227834958101882e+206 | 100.0 | nan

Table: Training accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10 | 5.650858542839681e+23 | 1 | 3.762205995187919e+120 | 0.1 | 1.1971213446620274e+111

50 | -2.1562800183344038e+80 | 2 | -7.929072180030249e+110 | 1.0 | -4.906439171809778e+211

100 | 1.5265774901467426e+109 | 4 | 1.2676938606075887e+103 | 10.0 | nan

200 | -5.296383296434461e+139 | 8 | 1.4908210646109467e+104 | 100.0 | nan

Table: Test accuracies with different hyper-parameters

n	Train Accuracy	d	Train Accuracy	eta	Train Accuracy
10	7.60272182295116e+210	1	1.9810494353465441e+217	0.1	4.8056895195447226e+212
50	-1.3822118698567983e+213	2	2.0199626222091002e+214	1.0	nan
100	6.499077882141983e+213	4	-1.5342239845161313e+209	10.0	nan
200	9.465902912931629e+216	8	1.2631969162804098e+209	100.0	nan

Table: Training accuracies with different hyper-parameters

n	Train Accuracy	d	Train Accuracy	eta	Train Accuracy
10	94540455138.14452	1	3.990809601983324e+110	0.1	2.3626418233662927e+111
50	2.385658605593896e+64	2	5.3669843316774415e+107	1.0	-1.0569009165393628e+213
100	9.289198296131137e+112	4	5.5231773750855316e+107	10.0	5.155779208331805e+305
200	-1.6985438906292428e+142	8	-2.287072734314766e+102	100.0	nan

Table: Test accuracies with different hyper-parameters

n	Train Accuracy	d	Train Accuracy	eta	Train Accuracy
10	3.013310526161607e+210	1	2.1882116046069156e+218	0.1	1.402639473306714e+214
50	-1.9753735983216157e+210	2	5.933572358107158e+213	1.0	nan
100	5.886974536849354e+213	4	2.9580302718667746e+209	10.0	nan
200	3.2108748485629163e+217	8	-6.64911769775409e+206	100.0	nan

Table: Training accuracies with different hyper-parameters

n	Train Accuracy	d	Train Accuracy	eta	Train Accuracy
10	-1.1379491888280188e+25	1	2.9575248074270634e+111	0.1	-1.263520342437962e+103
50	-1.5360689910627052e+85	2	6.969904243676614e+107	1.0	1.411142907358768e+212
100	6.164272278343707e+99	4	2.202784322765544e+106	10.0	-inf
200	9.083093618328774e+144	8	1.4337113698867502e+101	100.0	nan

Table: Test accuracies with different hyper-parameters

n	Train Accuracy	d	Train Accuracy	eta	Train Accuracy
10	1.5520125366455845e+207	1	2.7879749322479744e+218	0.1	-5.67096791370079e+216
50	6.1462383132689275e+211	2	-1.3341993839247395e+215	1.0	nan
100	9.536395437322947e+212	4	3.015841742507014e+208	10.0	nan
200	6.69664165355444e+216	8	1.9389420812491805e+207	100.0	nan

Table: Training accuracies with different hyper-parameters

n	Train Accuracy	d	Train Accuracy	eta	Train Accuracy
10	2.245003165499533e+25	1	1.85495101352403e+116	0.1	2.6054799809805314e+111
50	9.727060304473276e+83	2	1.43965562806216e+109	1.0	6.265920217966832e+221
100	3.5945815875546006e+107	4	6.422081316727344e+106	10.0	2.5882677228478615e+307
200	2.7773689153180224e+140	8	2.1677771452637387e+101	100.0	nan

Table: Test accuracies with different hyper-parameters

n	Train Accuracy	d	Train Accuracy	eta	Train Accuracy
10	-5.6422820555021865e+212	1	2.994491022849056e+219	0.1	-5.36717763856509e+214
50	-9.329977478923965e+212	2	6.20461510583578e+213	1.0	nan
100	-7.330506309272866e+214	4	6.866338962836471e+210	10.0	nan
200	-3.6593460360178753e+217	8	4.283197043464501e+207	100.0	nan

Table: Training accuracies with different hyper-parameters

n	Train Accuracy	d	Train Accuracy	eta	Train Accuracy
10	0.12636518665254334	1	8.852747961560105e+114	0.1	4.221943366066231e+112
50	6.229184251057646e+79	2	7.541935258546174e+111	1.0	6.567363458679411e+207
100	-1.258426504235913e+111	4	1.849979864933637e+103	10.0	nan
200	4.562412524471502e+141	8	2.8228765775660424e+102	100.0	nan

Table: Test accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10	1.1655427228237805e+211	1	2.8272527684251735e+220	0.1	2.5202120484726854e+215
50	3.017745944090743e+211	2	-3.2538531239803553e+212	1.0	nan
100	1.0841518502644878e+215	4	1.4027753180293044e+209	10.0	nan
200	8.24086862876778e+217	8	2.879479332593709e+207	100.0	nan

Table: Training accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10	6.559892665127857e+16	1	-9.178663352516927e+123	0.1	9.705325848109949e+113
50	9.55090976858361e+77	2	4.83027109463331e+106	1.0	1.6986425968003927e+208
100	7.88948883450899e+115	4	6.475851306669798e+108	10.0	nan
200	1.227992103998095e+139	8	1.8927202861086152e+107	100.0	nan

Table: Test accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10	-3.5762966436168394e+209	1	2.0216002721131936e+217	0.1	5.329515757552972e+216
50	4.194302535606083e+212	2	1.0204329044534335e+215	1.0	nan
100	5.640798122739543e+214	4	7.721657177208923e+209	10.0	nan
200	-6.375662538109223e+218	8	2.4185981334012324e+208	100.0	nan

Table: Training accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10	949089807705.9165	1	4.4717493414878845e+110	0.1	5.682724967297716e+111
50	-5.1546513355397026e+85	2	1.2447883037936401e+104	1.0	-1.0915855715788622e+208
100	6.285172872652486e+112	4	4.280948765013741e+106	10.0	-inf
200	-1.512136401049104e+143	8	1.6302396712210776e+104	100.0	nan

Table: Test accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10	-6.702967975526717e+207   1   1.2162328586057143e+219   0.1   1.6753738530557166e+213
50	4.985041132020246e+212   2   -6.746568243276345e+213   1.0   nan
100	-1.139763919652464e+214   4   -1.19003640625925e+211   10.0   nan
200	2.616481073811317e+216   8   -8.622683030967093e+206   100.0   nan

Table: Training accuracies with different hyper-parameters

	n Train Accuracy	d Train Accuracy	eta Train Accuracy
10	-3.252162904997476e+20   1   5.244879057491058e+108   0.1   1.289726121068709e+106		
50	6.973548007551732e+83   2   -2.132092806304701e+109   1.0   -4.7744922010413295e+203		
100	-1.5358338528299207e+105   4   -8.267831187310923e+103   10.0   nan		
200	3.1450811264117505e+141   8   6.825512567546038e+104   100.0   nan		

Table: Test accuracies with different hyper-parameters

	n Train Accuracy	d Train Accuracy	eta Train Accuracy
10	2.851370024130372e+210   1   1.559504503480341e+217   0.1   1.365005035255471e+215		
50	8.41196531727669e+213   2   7.246092183672974e+213   1.0   nan		
100	9.520454129532132e+211   4   5.29028274693494e+210   10.0   nan		
200	-6.447420984141193e+216   8   -3.1847257048697655e+206   100.0   nan		

Table: Training accuracies with different hyper-parameters

	n Train Accuracy	d Train Accuracy	eta Train Accuracy
10	3613798848523130.5   1   -3.725306032334616e+113   0.1   4.1893313079570827e+105		
50	2.0929902247522256e+78   2   2.444741682563173e+108   1.0   1.8206546937585136e+211		
100	-6.658568730867329e+108   4   5.208833392264194e+105   10.0   6.066168313889218e+303		
200	-5.909759797908521e+142   8   1.2747639867066503e+103   100.0   nan		

Table: Test accuracies with different hyper-parameters

	n Train Accuracy	d Train Accuracy	eta Train Accuracy
10	3.764233623645812e+210   1   1.0957276999432635e+218   0.1   1.10903443879857e+216		

50		7.875529202272559e+210		2		-2.4089116664488088e+216		1.0		nan
100		1.6254633581988735e+214		4		7.856039456633101e+210		10.0		nan
200		2.585257245483959e+217		8		-2.2371312875637034e+207		100.0		nan

Table: Training accuracies with different hyper-parameters

	n Train Accuracy		d Train Accuracy		eta Train Accuracy					
10		9878248881349338.0		1		1.5945506581029987e+113		0.1		3.0033347938243606e+108
50		1.27264411488576e+93		2		-1.8250431244395668e+111		1.0		-1.7011451404390948e+210
100		-1.3311649228189559e+107		4		2.211987942958182e+106		10.0		nan
200		4.672456337200252e+144		8		2.455953773118838e+104		100.0		nan

Table: Test accuracies with different hyper-parameters

	n Train Accuracy		d Train Accuracy		eta Train Accuracy					
10		1.5471009492432492e+211		1		1.1500426816909039e+219		0.1		3.2405979036598316e+211
50		1.381175582022442e+213		2		1.2841487579820567e+215		1.0		nan
100		-8.578692995582524e+215		4		-3.871060255574359e+211		10.0		nan
200		-9.797986266970411e+216		8		-3.9959663118425665e+204		100.0		nan

Table: Training accuracies with different hyper-parameters

	n Train Accuracy		d Train Accuracy		eta Train Accuracy					
10		2.19343022641847e+19		1		1.091353133656954e+126		0.1		1.4759699245250634e+110
50		-6.314729024204743e+72		2		8.328421037493386e+110		1.0		1.0384640247175158e+208
100		-6.465453790994439e+105		4		4.415983767175015e+102		10.0		nan
200		5.801370721063024e+136		8		1.650992666325736e+100		100.0		nan

Table: Test accuracies with different hyper-parameters

	n Train Accuracy		d Train Accuracy		eta Train Accuracy					
10		1.75065967994115e+209		1		1.4143726097636114e+217		0.1		-6.031434826018988e+214
50		7.076956321386588e+208		2		2.5672402671583986e+214		1.0		nan

100	4.7388674479681797e+213	4	1.3236777701111363e+210	10.0	nan
200	8.498595049160442e+219	8	-6.809253824793349e+205	100.0	nan

Table: Training accuracies with different hyper-parameters

	n Train Accuracy		d Train Accuracy		eta Train Accuracy
10	1.2740879972881434e+16	1	3.79498699004196e+113	0.1	-8.363454364710364e+109
50	2.0204048048518844e+87	2	4.679368435767431e+110	1.0	1.2901204343688433e+213
100	4.540046535927828e+106	4	1.4165284250197474e+104	10.0	nan
200	4.0701888641683445e+142	8	1.490101497254434e+106	100.0	nan

Table: Test accuracies with different hyper-parameters

	n Train Accuracy		d Train Accuracy		eta Train Accuracy
10	-2.025450907024407e+209	1	3.3492126034648985e+217	0.1	-4.264668947550336e+214
50	-1.3890290939622216e+212	2	3.002087973296729e+214	1.0	nan
100	1.0476462503617112e+213	4	-7.969868502136216e+208	10.0	nan
200	6.531416335514712e+216	8	7.800924867523963e+207	100.0	nan

Table: Training accuracies with different hyper-parameters

	n Train Accuracy		d Train Accuracy		eta Train Accuracy
10	15681282330.15809	1	1.7624855740669847e+118	0.1	3.7486953119202526e+108
50	1.6622772591310773e+76	2	-3.66536188480009e+109	1.0	-1.1921501176492642e+212
100	6.93881367307489e+108	4	-2.072941277805008e+112	10.0	nan
200	6.948003835243768e+140	8	-1.2732017321351674e+110	100.0	nan

Table: Test accuracies with different hyper-parameters

	n Train Accuracy		d Train Accuracy		eta Train Accuracy
10	-3.4823656321710892e+208	1	3.7398315007248076e+217	0.1	-3.2694984491828736e+212
50	9.027728422449662e+211	2	5.394399844292877e+216	1.0	nan

100		-1.8150250716004065e+214		4		1.1171227826967069e+209		10.0		nan
200		7.767053740129707e+217		8		-2.401094340585271e+208		100.0		nan

Table: Training accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy			
10		1.490624455186795		1		4.987040572550879e+115		0.1		5.395955869269326e+106
50		-6.467084922687309e+81		2		6.2132524499291654e+106		1.0		3.176969747860321e+210
100		1.530526255298016e+105		4		4.56735874164266e+103		10.0		nan
200		2.5026746812793062e+141		8		8.084409151468766e+101		100.0		nan

Table: Test accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy			
10		1.9808968934252653e+210		1		1.0995403305563135e+217		0.1		3.389809543073405e+214
50		5.702231083091101e+212		2		3.665626474745028e+212		1.0		nan
100		1.4711411332143684e+214		4		4.357697946564616e+211		10.0		nan
200		6.632791949511248e+217		8		-1.5724581375722287e+207		100.0		nan

Table: Training accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy			
10		9759023364.763916		1		2.317504152689068e+112		0.1		-1.769132828706467e+108
50		9.787168878354811e+84		2		1.0221556562911468e+110		1.0		-9.320645032306726e+211
100		3.7486979117735694e+110		4		-4.8695235339132525e+107		10.0		4.0957246280640686e+304
200		-1.3225640443793607e+138		8		-7.44068664757278e+103		100.0		nan

Table: Test accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy			
10		1.3231535307987037e+209		1		-5.416330606825574e+219		0.1		1.9411684051300887e+213
50		-6.404257423044086e+211		2		1.9816779197433267e+214		1.0		nan



100	7.347840923732669e+212	4	-2.0588844264000111e+211	10.0	nan
200	1.2104880855907883e+217	8	-1.4442556152528681e+208	100.0	nan

Table: Training accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy
10	1.6817674285383334e+17		1	1.0748778822433184e+114		0.1	1.8835364936264577e+105
50	6.233477703416443e+80		2	1.0961348584752557e+112		1.0	2.3659638319645814e+212
100	4.290526225116407e+111		4	-1.1255277271465175e+104		10.0	-1.7087331319389085e+307
200	4.708990515103246e+141		8	-1.2641426735079495e+105		100.0	nan

Table: Test accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy
10	6.5002900875246825e+209		1	1.7033769988659139e+214		0.1	-1.9857178906039834e+214
50	3.0604808293397125e+209		2	2.2252000003341774e+215		1.0	nan
100	-2.825265932187031e+213		4	-4.4996131703389285e+211		10.0	nan
200	3.3584017863761893e+217		8	1.1982952107670198e+207		100.0	nan

Table: Training accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy
10	2.504752613792009e+22		1	3.189173166179953e+111		0.1	5.8543222388129914e+107
50	4.1187350553884775e+79		2	7.162860857142426e+112		1.0	3.2361544304628853e+201
100	7.953089174394209e+107		4	-6.0406361433933225e+106		10.0	nan
200	-1.83559299046973e+137		8	6.823364020722354e+106		100.0	nan

Table: Test accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy
10	4.550547501843048e+209		1	2.0594190131037292e+219		0.1	-1.3065267312809363e+214
50	6.411605588424347e+214		2	3.461108526964528e+215		1.0	nan

100	9.335654277124306e+212	4	2.0955556475721482e+211	10.0	nan
200	1.118193030873965e+218	8	-1.4079218185275713e+208	100.0	nan

Table: Training accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy
10	9396396694023.254		1	1.0410319197809215e+110		0.1	1.2799658034559096e+106
50	2.8757545887374716e+75		2	1.990203490983569e+109		1.0	-1.5422401501428837e+207
100	9.259556232609803e+112		4	7.633917273526524e+106		10.0	nan
200	3.963566917559621e+137		8	-8.17945497588391e+107		100.0	nan

Table: Test accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy
10	2.5318217264049585e+209		1	-1.1821137418369019e+219		0.1	5.433021503308024e+213
50	1.8705787406100959e+211		2	9.140728811870805e+213		1.0	nan
100	-3.151708555559506e+213		4	5.443331440432598e+209		10.0	nan
200	2.2880255505959934e+216		8	-3.978040889168139e+208		100.0	nan

Table: Training accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy
10	2.7204123959395037e+19		1	2.9518681384661614e+112		0.1	2.5032682435026836e+106
50	5.3551149102712404e+79		2	-6.813436314625104e+112		1.0	4.994861919470534e+205
100	3.8220299628129665e+111		4	8.243861542169223e+107		10.0	nan
200	-8.982810512783562e+140		8	3.6752342197211925e+105		100.0	nan

Table: Test accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy
10	4.4528520408058605e+209		1	-5.499956456690793e+218		0.1	-1.4480618116029009e+214
50	2.881631545527945e+211		2	3.257716174599243e+212		1.0	nan
100	2.7216792269310283e+213		4	1.6555223925521058e+209		10.0	nan

200 | 2.0949287254626503e+218 | 8 | -4.975906647237704e+207 | 100.0 | nan

Table: Training accuracies with different hyper-parameters

n	Train Accuracy	d	Train Accuracy	eta	Train Accuracy
10	-1065095581593.3256	1	1.0942117007165013e+106	0.1	-1.343414748727026e+112
50	6.621698678030423e+71	2	4.848872911006043e+108	1.0	2.265086756536901e+204
100	-5.834912024598974e+108	4	3.785742276911938e+103	10.0	nan
200	6.301626470816987e+137	8	-7.739752779723256e+103	100.0	nan

Table: Test accuracies with different hyper-parameters

n	Train Accuracy	d	Train Accuracy	eta	Train Accuracy
10	1.0950409844151055e+212	1	6.057832438012426e+217	0.1	3.558891321926778e+213
50	2.1685656869585886e+212	2	8.199312140650124e+214	1.0	nan
100	-2.8178383614335007e+215	4	1.9997824644210318e+209	10.0	nan
200	1.1790086439349593e+218	8	2.33792350095656e+207	100.0	nan

Table: Training accuracies with different hyper-parameters

n	Train Accuracy	d	Train Accuracy	eta	Train Accuracy
10	7827889050.09373	1	6.9259965067089045e+109	0.1	9.718787966869479e+108
50	-2.2754569734514574e+86	2	-2.4682897026989876e+112	1.0	2.2408230963225785e+214
100	-1.1040860463218733e+111	4	-1.11702091612878e+111	10.0	nan
200	-3.5145879243129904e+144	8	-1.5889385025420004e+102	100.0	nan

Table: Test accuracies with different hyper-parameters

n	Train Accuracy	d	Train Accuracy	eta	Train Accuracy
10	-5.207457907311324e+210	1	6.899996611041438e+216	0.1	-4.733627007544547e+213
50	-1.746623827649505e+212	2	-8.610139016634478e+213	1.0	nan
100	6.311271976500989e+212	4	-1.0914268618448818e+211	10.0	nan
200	-5.3818048831166985e+218	8	2.207237222868191e+208	100.0	nan

Table: Training accuracies with different hyper-parameters

	n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy		
10		4.256810920242916e+19		1		-6.121234066330069e+112		0.1		-6.563201853837586e+120
50		2.573338571740396e+85		2		-1.1453241054597907e+104		1.0		8.18539078831745e+201
100		6.4980326138534e+106		4		8.631348826986876e+106		10.0		nan
200		5.654640788453179e+139		8		1.192336726198981e+102		100.0		nan

Table: Test accuracies with different hyper-parameters

	n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy		
10		2.882391509483832e+210		1		1.8177382556347655e+218		0.1		4.430451665644911e+213
50		2.5071414295037645e+212		2		4.7165306436001734e+213		1.0		nan
100		4.0342960465651544e+212		4		-2.0289613099797282e+210		10.0		nan
200		1.0620108376846074e+217		8		6.754973996882745e+207		100.0		nan

Table: Training accuracies with different hyper-parameters

	n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy		
10		2121581650.2714329		1		-1.1541864054863006e+116		0.1		1.2724184249531955e+112
50		1.0085787509909746e+82		2		2.2370164089652033e+106		1.0		-2.785820373709816e+216
100		-5.042811125067139e+111		4		-2.654893909384744e+103		10.0		nan
200		7.081455747300285e+137		8		-5.423912874285194e+101		100.0		nan

Table: Test accuracies with different hyper-parameters

	n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy		
10		1.587907020090219e+210		1		-8.704909167498747e+217		0.1		-3.195197237669536e+213
50		2.5159908555719062e+212		2		4.242978541448562e+213		1.0		nan
100		2.0004330339812048e+213		4		1.0664432174120649e+209		10.0		nan
200		-6.237278198840779e+215		8		2.3421290772832503e+207		100.0		nan

Table: Training accuracies with different hyper-parameters

n	Train Accuracy	d	Train Accuracy	eta	Train Accuracy
10	10.028277503777344	1	3.140572485535413e+110	0.1	1.4257138499383032e+114
50	7.334945734070441e+85	2	5.396621779645526e+107	1.0	2.65685119349575e+210
100	1.7678612809638606e+106	4	3.70611624262352e+104	10.0	nan
200	8.460463733926745e+138	8	-1.7122320801180627e+103	100.0	nan

Table: Test accuracies with different hyper-parameters

n	Train Accuracy	d	Train Accuracy	eta	Train Accuracy
10	7.095993965187165e+207	1	-8.50826964496959e+218	0.1	5.168366521278811e+211
50	2.3346730964699206e+210	2	-3.0621820636539497e+211	1.0	nan
100	-3.203663807036103e+214	4	1.9104795819438442e+209	10.0	nan
200	2.8682084243611317e+218	8	3.2504951719469544e+207	100.0	nan

Table: Training accuracies with different hyper-parameters

n	Train Accuracy	d	Train Accuracy	eta	Train Accuracy
10	2.1926902637387076e+16	1	-3.086493901366968e+120	0.1	-1.6050287498576632e+112
50	-6.944840574159301e+89	2	2.4493234835768317e+112	1.0	7.484037371634772e+211
100	3.3383778522421765e+106	4	-7.649538526394943e+107	10.0	nan
200	4.6308991290088555e+141	8	1.2664413216716686e+103	100.0	nan

Table: Test accuracies with different hyper-parameters

n	Train Accuracy	d	Train Accuracy	eta	Train Accuracy
10	-8.82552896970993e+211	1	7.628838514230881e+217	0.1	-4.488896150938129e+214
50	-4.318518870643816e+210	2	3.3963829122562495e+212	1.0	nan
100	4.534857332655187e+213	4	1.551913202889483e+211	10.0	nan
200	4.1823764795461295e+217	8	-1.1887203391597866e+207	100.0	nan

Table: Training accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10	7.07152138444167e+26   1	3.007596190848825e+104   0.1	-8.554808500637436e+108
50	7.905556673520751e+84   2	4.241562731870862e+112   1.0	1.0226449267477716e+210
100	1.3175544418910511e+104   4	3.718507125256038e+100   10.0	nan
200	7.613743281393662e+142   8	6.787253242185234e+103   100.0	nan

Table: Test accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10	-1.1821035512273377e+209   1	-4.164551820523059e+221   0.1	5.350302877645293e+212
50	-6.298701733785658e+210   2	2.841233729544876e+214   1.0	nan
100	5.815249507000918e+214   4	2.09412143813611e+210   10.0	nan
200	5.3428865979215474e+219   8	-1.7681568648013733e+207   100.0	nan

Table: Training accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10	-10056682924891.986   1	1.0128619105314044e+107   0.1	-1.369868885772458e+108
50	1.4793536020191758e+81   2	3.936168634279598e+106   1.0	-1.5052431038445123e+214
100	-1.0177662126453206e+117   4	3.244590363362442e+107   10.0	nan
200	-2.1589636791315838e+139   8	2.1013007505753288e+104   100.0	nan

Table: Test accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10	2.466736139724313e+211   1	-1.3759854912815847e+220   0.1	1.9716066235850896e+215
50	6.735181797322247e+211   2	-1.2361764766267937e+215   1.0	nan
100	2.0019869890043705e+214   4	-1.6687035506492015e+210   10.0	nan
200	-4.127713978649064e+217   8	-1.1662426833059805e+207   100.0	nan

Table: Training accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10	1.2093537446184723e+21	1	-1.0982764122812758e+115	0.1	7.081953231807516e+108
50	1.9897915720227497e+81	2	9.9746121364285e+112	1.0	5.633664757465649e+210
100	9.022319707304648e+113	4	2.5168138816903214e+102	10.0	-inf
200	-1.7807313798898218e+142	8	6.121645744173871e+104	100.0	nan

Table: Test accuracies with different hyper-parameters

	n Train Accuracy	d Train Accuracy	eta Train Accuracy	
10	1.2842563441814205e+209	1	-1.9033368780737115e+217	0.1  7.142146680799863e+214
50	-6.889395263873023e+210	2	-6.859930816088507e+212	1.0  nan
100	8.222816061840974e+211	4	1.5225841383381095e+209	10.0  nan
200	2.6830356980026526e+217	8	8.98792289761991e+207	100.0  nan

Table: Training accuracies with different hyper-parameters

	n Train Accuracy	d Train Accuracy	eta Train Accuracy	
10	-4.277970431671806e+17	1	-1.2649069818368726e+115	0.1  1.7458208526195822e+105
50	3.824551997660066e+82	2	-6.0936824678305055e+112	1.0  -1.097437925337643e+211
100	1.6332362667454773e+112	4	5.206182624759085e+108	10.0  3.750333094399853e+300
200	8.074337915559008e+139	8	3.7786285502491755e+102	100.0  nan

Table: Test accuracies with different hyper-parameters

	n Train Accuracy	d Train Accuracy	eta Train Accuracy	
10	-2.559452158163762e+210	1	1.2849886550985227e+216	0.1  3.002908794245318e+213
50	7.266163002667783e+211	2	4.564727421775664e+214	1.0  nan
100	-5.235155854854218e+214	4	-4.2157510367367314e+210	10.0  nan
200	2.4488378278844283e+215	8	-1.5867537492015035e+206	100.0  nan

Table: Training accuracies with different hyper-parameters

	n Train Accuracy	d Train Accuracy	eta Train Accuracy	
10	219121051434258.34	1	7.108447436855589e+115	0.1  -1.6697496643079038e+113

50	-3.5711381112550656e+85	2	1.5961401261487713e+110	1.0	5.049091324859215e+210
100	2.1089025229947636e+103	4	6.998098869468207e+112	10.0	nan
200	-2.099008091200316e+140	8	-7.000032415671044e+104	100.0	nan

Table: Test accuracies with different hyper-parameters

	n Train Accuracy	d Train Accuracy	eta Train Accuracy
10	1.2322110648430344e+210	1	7.054534702956105e+215   0.1   -6.106780547554879e+215
50	-2.1039871805960814e+212	2	2.944624501041266e+214   1.0   nan
100	-8.89785965905056e+212	4	3.6047130924025643e+210   10.0   nan
200	1.485079847523801e+218	8	1.2817364525792155e+206   100.0   nan

Table: Training accuracies with different hyper-parameters

	n Train Accuracy	d Train Accuracy	eta Train Accuracy
10	4.60512348172449e+20	1	-9.349924227581036e+117   0.1   4.846683782018512e+108
50	1.081546965366502e+75	2	2.3793308566038944e+106   1.0   1.7977542009521972e+202
100	-4.630374314002817e+109	4	-5.471578833142131e+108   10.0   5.834487948375929e+306
200	5.2072222646659926e+141	8	-2.371232929766845e+100   100.0   nan

Table: Test accuracies with different hyper-parameters

	n Train Accuracy	d Train Accuracy	eta Train Accuracy
10	6.336851397168994e+210	1	5.718102940516254e+217   0.1   3.671594683926799e+211
50	1.3767394037380424e+211	2	-4.374097402113475e+214   1.0   nan
100	-3.179965476547389e+216	4	-3.107205674874421e+210   10.0   nan
200	-3.2185254181566307e+218	8	-2.76234662265948e+209   100.0   nan

Table: Training accuracies with different hyper-parameters

	n Train Accuracy	d Train Accuracy	eta Train Accuracy
10	2.428053965417113e+25	1	-1.209890400683223e+111   0.1   8.32174825330209e+115
50	1.0509999476197717e+82	2	-3.123253311776324e+107   1.0   -8.188346727796368e+215



100	-6.812109492019455e+113	4	7.139497483043145e+103	10.0	2.7418992454343806e+302
200	4.5336209204848474e+141	8	-2.1492558358941062e+103	100.0	nan

Table: Test accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy
10	-1.3175456043308853e+213	1	-2.6065719195154722e+219	0.1	-1.728264645891017e+211		
50	2.0107279432807041e+211	2	2.2272290566377113e+212	1.0	nan		
100	2.0773419163086564e+213	4	-1.753027603508954e+209	10.0	nan		
200	1.2119832466220943e+218	8	-1.7008051539778589e+208	100.0	nan		

Table: Training accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy
10	12389649617.83265	1	1.4025227695380196e+113	0.1	1.7696123196754414e+115		
50	4.1498573993593456e+86	2	7.475281944920952e+108	1.0	-8.573231619471374e+215		
100	-1.7554803185443624e+108	4	8.350532718354252e+100	10.0	nan		
200	6.293886936212287e+138	8	4.0087627114597867e+104	100.0	nan		

Table: Test accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy
10	6.231248548456369e+210	1	-2.632127792514549e+218	0.1	9.99909701338298e+215		
50	1.7619171066965422e+212	2	7.847051077806931e+213	1.0	nan		
100	1.487777160112981e+214	4	-8.072247933807115e+209	10.0	nan		
200	-1.4672369592599676e+219	8	2.4547313985152095e+208	100.0	nan		

Table: Training accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy
10	1.05947172376922e+19	1	1.032885857729942e+115	0.1	-4.1986119883369146e+102		
50	-1.5966385271887558e+82	2	1.7643048733448788e+112	1.0	2.4185988827858228e+213		

100		-3.750498422625589e+111		4		2.3457395126918134e+104		10.0		nan
200		9.904406196102862e+138		8		-4.71929971979729e+105		100.0		nan

Table: Test accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy			
10		1.9242712169667037e+210		1		-4.2941664502506527e+220		0.1		8.407362127311171e+212
50		-5.957401041240883e+210		2		-3.725778597468803e+216		1.0		nan
100		1.952421514549935e+214		4		-3.329494463683729e+209		10.0		nan
200		9.490714159478682e+217		8		-1.8380389885595267e+205		100.0		nan

Table: Training accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy			
10		1.7728822330702636e+18		1		9.715840551501112e+115		0.1		1.5980415558279862e+115
50		3.2123755810714718e+84		2		-1.1153500597057759e+108		1.0		8.327458651916776e+210
100		3.9252622998387306e+110		4		5.584276485739044e+102		10.0		-inf
200		-2.0616352008182664e+138		8		-3.019197410169204e+102		100.0		nan

Table: Test accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy			
10		1.6656464668521965e+211		1		-8.968025775766336e+217		0.1		-7.689938992029065e+213
50		8.548575290507933e+209		2		6.054744010102108e+211		1.0		nan
100		4.9268666974333405e+212		4		3.948658293019738e+209		10.0		nan
200		8.457675980098504e+215		8		4.370907910530119e+208		100.0		nan

Table: Training accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy			
10		124.6068749358352		1		2.1461557087641585e+118		0.1		8.26704254353695e+109
50		1.7486949682926112e+85		2		-9.416347688213537e+109		1.0		1.0981414995558826e+204
100		4.2160465333667e+112		4		3.5169896692774426e+109		10.0		nan

200 | -8.295654190294832e+139 | 8 | -2.0742095794521872e+99 | 100.0 | nan

Table: Test accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10 | 3.8595947700922696e+209 | 1 | 4.0984677816874886e+221 | 0.1 | -9.774745532242525e+215

50 | -1.6589351313813022e+211 | 2 | -2.795532992727941e+213 | 1.0 | nan

100 | 1.1130285232184933e+213 | 4 | -1.0873364061917808e+209 | 10.0 | nan

200 | -3.211977656807966e+217 | 8 | 1.6785504705763092e+207 | 100.0 | nan

Table: Training accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10 | 586.0014258582762 | 1 | -2.275598633390972e+113 | 0.1 | 2.7902525998978364e+107

50 | 3.9963144567517174e+92 | 2 | -7.188124381747037e+111 | 1.0 | -7.522206857924125e+209

100 | 7.494042174905312e+108 | 4 | -3.863669682784224e+109 | 10.0 | nan

200 | 1.4593235803886291e+138 | 8 | -4.0004429225096704e+102 | 100.0 | nan

Table: Test accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10 | 2.9405540440733067e+207 | 1 | 1.2442571789988925e+218 | 0.1 | 2.4264310229684528e+213

50 | 1.1799248011847854e+212 | 2 | 3.28197048698552e+214 | 1.0 | nan

100 | -4.382004810266824e+214 | 4 | 5.679031096861521e+211 | 10.0 | nan

200 | 8.025685810831244e+216 | 8 | 4.545122221804089e+206 | 100.0 | nan

Table: Training accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10 | 1586312300.8341682 | 1 | 2.48524154948518e+114 | 0.1 | -8.613287731540227e+118

50 | -3.528462156663725e+78 | 2 | 1.2700080311616126e+106 | 1.0 | -2.372626959404846e+211

100 | 1.918931739387602e+106 | 4 | 4.837107877148766e+102 | 10.0 | nan

200 | 7.171272302438429e+136 | 8 | 4.8774820038862314e+101 | 100.0 | nan

Table: Test accuracies with different hyper-parameters

	n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy		
10		1.0037655470356235e+211		1		9.265012245041102e+216		0.1		2.568584262099785e+213
50		5.780276353383284e+211		2		-6.014424556016512e+213		1.0		nan
100		2.675782384307962e+213		4		4.623375895693051e+211		10.0		nan
200		2.3801239736057623e+217		8		1.8243548133165008e+207		100.0		nan

Table: Training accuracies with different hyper-parameters

	n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy		
10		-4793979486.172105		1		8.316682554577971e+105		0.1		-1.7340009822518483e+104
50		2.7689020592554265e+87		2		-2.0511130582940814e+113		1.0		2.0976678569285316e+207
100		1.6676593256187987e+115		4		4.633462181563116e+105		10.0		nan
200		5.276484221470446e+139		8		2.4297282165024557e+105		100.0		nan

Table: Test accuracies with different hyper-parameters

	n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy		
10		1.0141356777924804e+208		1		4.083025005703933e+218		0.1		-6.697944554586975e+214
50		-4.183565232281659e+210		2		1.171122082931671e+214		1.0		nan
100		8.026833611479678e+212		4		2.928483839824136e+209		10.0		nan
200		8.81775679880251e+217		8		-5.449544473416421e+206		100.0		nan

Table: Training accuracies with different hyper-parameters

	n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy		
10		1.1274260378534926e+33		1		4.268182736772302e+115		0.1		1.1234761122270622e+110
50		2.932262852514874e+73		2		9.813747114328925e+112		1.0		1.4965564849988106e+214
100		-7.844988838878303e+103		4		-6.247152286555251e+110		10.0		nan
200		6.35152029550069e+140		8		-1.3522408970870843e+102		100.0		nan

Table: Test accuracies with different hyper-parameters

	n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy
10		-1.230856464234532e+210		1	6.381550906825645e+216		0.1	2.2615564394475886e+213
50		1.2812129304732847e+210		2	6.221479821638222e+211		1.0	nan
100		1.4262026509901212e+215		4	-6.2414197216768884e+209		10.0	nan
200		5.669105892599309e+217		8	7.632064314622643e+206		100.0	nan

Table: Training accuracies with different hyper-parameters

	n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy
10		9.463172948959124e+23		1	4.545580875819461e+106		0.1	9.257072174576317e+99
50		2.763597412547109e+84		2	4.824020828059737e+113		1.0	6.976346928108106e+201
100		2.458482467043733e+113		4	4.3905100992513477e+108		10.0	-2.9226632773053035e+300
200		4.789984752701201e+140		8	1.9293768070774775e+103		100.0	nan

Table: Test accuracies with different hyper-parameters

	n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy
10		2.4856409122087888e+210		1	3.038863129977156e+216		0.1	-8.054205714456736e+214
50		-1.3301475080717356e+211		2	-1.9630716055201428e+214		1.0	nan
100		2.477363850573087e+214		4	-1.1126160402255168e+212		10.0	nan
200		1.770181550703144e+220		8	5.021427897507678e+207		100.0	nan

Table: Training accuracies with different hyper-parameters

	n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy
10		2.5024802782000747e+23		1	2.375165063901204e+115		0.1	2.5496372619890895e+102
50		1.6467706341591498e+76		2	-6.423413840593868e+107		1.0	5.436083507690072e+200
100		2.0811170159144658e+109		4	1.5566965757356198e+107		10.0	nan
200		-1.2761135426690757e+141		8	2.3205364822257557e+102		100.0	nan

Table: Test accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10	-4.4870359346120733e+210	1	2.1759966972141229e+217	0.1	5.0437618866491745e+213
50	3.7395091212551503e+211	2	-1.2203785366082375e+213	1.0	nan
100	-7.530891666344876e+214	4	1.0712069419134105e+212	10.0	nan
200	1.1512220007191568e+217	8	1.0616987092027706e+208	100.0	nan

Table: Training accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10	180642133.60725474	1	-4.2776235568409354e+120	0.1	7.309369393055415e+109
50	1.8663553612269406e+79	2	1.9875572522386216e+113	1.0	-7.2595159075958415e+211
100	6.534645882876218e+106	4	-3.1287467673240004e+103	10.0	nan
200	2.8206267817815265e+137	8	-2.1975013977608078e+101	100.0	nan

Table: Test accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10	-2.810126781564308e+210	1	-1.8338606480109386e+218	0.1	-5.797468387307523e+213
50	2.0124360891240184e+213	2	5.001045589126764e+215	1.0	nan
100	-7.736169817597755e+212	4	1.7920539390079883e+209	10.0	nan
200	9.425193629791585e+216	8	4.0571723920307434e+208	100.0	nan

Table: Training accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10	-4.297453500405771e+29	1	1.2779856434424265e+114	0.1	3.363489014477811e+114
50	5.061914233503368e+73	2	-3.6100856962245572e+112	1.0	1.77885898646992e+214
100	1.7194671106111564e+114	4	2.7966726163805136e+108	10.0	nan
200	-1.5277714699669322e+140	8	-2.41944922114597e+108	100.0	nan

Table: Test accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10	1.2417820504420954e+210   1   -2.3634029207321836e+220   0.1   9.468875952291304e+213
50	9.223161196613771e+211   2   2.568831871387737e+215   1.0   nan
100	5.435230415159559e+213   4   4.860984283347268e+211   10.0   nan
200	5.452838649413212e+217   8   6.589560352848724e+206   100.0   nan

Table: Training accuracies with different hyper-parameters

	n Train Accuracy	d Train Accuracy	eta Train Accuracy
10	5.773820805604853e+23   1   1.8142959773840674e+118   0.1   2.0981696536407788e+102		
50	1.5168972049887213e+84   2   1.715324889101169e+113   1.0   -2.485563815923274e+211		
100	1.5771005645757826e+104   4   7.540422511446602e+109   10.0   5.799871841313753e+307		
200	3.0987144732049094e+145   8   2.891342152248225e+103   100.0   nan		

Table: Test accuracies with different hyper-parameters

	n Train Accuracy	d Train Accuracy	eta Train Accuracy
10	4.475495849583765e+209   1   5.022491001853893e+216   0.1   1.354848961647384e+213		
50	-3.181577098240367e+211   2   2.168836909650311e+213   1.0   nan		
100	4.497628258161258e+214   4   2.806125003213243e+210   10.0   nan		
200	3.920384173466373e+216   8   1.1160408457585735e+207   100.0   nan		

Table: Training accuracies with different hyper-parameters

	n Train Accuracy	d Train Accuracy	eta Train Accuracy
10	1.960212568244029e+38   1   4.052583161313552e+112   0.1   1.7375241324327423e+115		
50	5.297694199102047e+86   2   9.416960958602079e+109   1.0   1.4771073335162112e+214		
100	-1.7917353635961024e+114   4   -1.0250994441682056e+101   10.0   1.0563685800165717e+305		
200	2.001057447711207e+137   8   5.262550918387536e+107   100.0   nan		

Table: Test accuracies with different hyper-parameters

	n Train Accuracy	d Train Accuracy	eta Train Accuracy
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10	-3.9942699359746136e+209	1	1.4463142205200143e+217	0.1	-9.291799311422099e+214
50	-1.9873213353826429e+214	2	6.400581237370447e+213	1.0	nan
100	-3.1933169883082972e+212	4	4.564996025064154e+212	10.0	nan
200	-1.0703040577447539e+218	8	1.1664999886531881e+207	100.0	nan

Table: Training accuracies with different hyper-parameters

	n Train Accuracy	d Train Accuracy	eta Train Accuracy
10	-1512511410533.029	1	4.79537621056658e+112   0.1   6.899254420299416e+108
50	2.0000157941196543e+79	2	6.037456694341677e+115   1.0   1.7205155776975242e+213
100	7.109898504393373e+105	4	-1.2673770150823505e+109   10.0   nan
200	2.395761124962038e+140	8	8.06841149006814e+101   100.0   nan

Table: Test accuracies with different hyper-parameters

	n Train Accuracy	d Train Accuracy	eta Train Accuracy
10	-7.039959206880416e+209	1	-4.662824665723458e+218   0.1   1.3687533394217064e+214
50	-1.5239093434912065e+211	2	1.9746016908132543e+215   1.0   nan
100	6.57289027778544e+214	4	9.546795525015412e+209   10.0   nan
200	3.52068871240161e+217	8	2.7104980107370363e+207   100.0   nan

Table: Training accuracies with different hyper-parameters

	n Train Accuracy	d Train Accuracy	eta Train Accuracy
10	-4.757333660277977e+19	1	-2.493302719685074e+119   0.1   5.297566298206638e+118
50	3.441938104548407e+73	2	6.971677304369064e+108   1.0   6.529829388378185e+209
100	2.3618327705620883e+108	4	1.5389446920362367e+111   10.0   -inf
200	-1.5655915078449812e+140	8	-4.575118736050669e+101   100.0   nan

Table: Test accuracies with different hyper-parameters

	n Train Accuracy	d Train Accuracy	eta Train Accuracy
10	2.7937239811708937e+211	1	-2.5547344981198294e+218   0.1   -6.493971182166055e+214



50	4.333990269255578e+212   2   1.1323905096225124e+213   1.0   nan
100	2.890184101498187e+215   4   1.6870586344780237e+209   10.0   nan
200	-1.4239707844932668e+217   8   -3.613538886357251e+206   100.0   nan

Table: Training accuracies with different hyper-parameters

	n Train Accuracy		d Train Accuracy		eta Train Accuracy
10	2312686825602.6743   1   2.3615046593456623e+116   0.1   -2.6167826761824895e+103				
50	-9.665694780116781e+80   2   3.147524702629351e+105   1.0   1.265330827004492e+211				
100	-9.451676505277336e+112   4   -3.774923747467878e+104   10.0   nan				
200	-1.0223750724276194e+139   8   3.1617015821317307e+105   100.0   nan				

Table: Test accuracies with different hyper-parameters

	n Train Accuracy		d Train Accuracy		eta Train Accuracy
10	7.228808292030386e+210   1   3.654628648892706e+218   0.1   1.4453859509763066e+211				
50	6.164551523922901e+211   2   -6.060894727779879e+215   1.0   nan				
100	7.909958870814523e+214   4   3.244331707193799e+211   10.0   nan				
200	9.560147529481475e+217   8   -2.6269562777609943e+207   100.0   nan				

Table: Training accuracies with different hyper-parameters

	n Train Accuracy		d Train Accuracy		eta Train Accuracy
10	16.534368868192804   1   -1.4028369261034433e+116   0.1   3.0832049148270723e+107				
50	9.544258390804004e+81   2   1.1027677029729915e+107   1.0   1.5827510704368958e+207				
100	3.5079513433247546e+111   4   2.821300147159528e+103   10.0   nan				
200	6.357842045279456e+136   8   1.0323893014230589e+107   100.0   nan				

Table: Test accuracies with different hyper-parameters

	n Train Accuracy		d Train Accuracy		eta Train Accuracy
10	2.23864905923315e+208   1   1.6492880999057154e+217   0.1   1.7221338817334472e+213				
50	-9.631078185999422e+211   2   5.2711273225207244e+212   1.0   nan				

100	5.693006497562238e+215	4	4.323632763919489e+209	10.0	nan
200	2.7735465228963215e+216	8	4.1193525894004835e+206	100.0	nan

Table: Training accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy
10	3.1629653.54722107		1	4.9424364600594764e+119		0.1	-9.384067921392853e+115
50	3.866392810036961e+73		2	-4.185522755792585e+117		1.0	6.732083600110247e+205
100	-5.881020461152334e+109		4	1.1884651114275092e+110		10.0	2.468580853090591e+307
200	-3.7994055507195297e+136		8	-2.0453554329020384e+102		100.0	nan

Table: Test accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy
10	2.117576602466677e+209		1	3.3534994258753144e+214		0.1	-2.2367060599806936e+215
50	1.6778877199291408e+212		2	1.143044456416592e+214		1.0	nan
100	2.5138832825745677e+215		4	1.2431418242379432e+210		10.0	nan
200	5.664905805458244e+217		8	1.5603370402776056e+206		100.0	nan

Table: Training accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy
10	3.2852567218469663e+19		1	-6.812532087184896e+117		0.1	1.791128100069256e+112
50	-1.3599801224507158e+78		2	4.758655038938794e+109		1.0	3.3548720979853076e+200
100	-3.159104976751027e+116		4	1.0258996756054082e+108		10.0	5.813304379322257e+304
200	3.205064113158169e+141		8	-2.5836547481311277e+105		100.0	nan

Table: Test accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy
10	6.861775420881827e+208		1	2.8415752034524604e+218		0.1	4.8868458162785736e+215
50	2.4313958147001828e+213		2	-7.949033916957899e+212		1.0	nan
100	-2.748847375367414e+214		4	-1.6477711913566989e+212		10.0	nan

200 | -9.62897424341301e+217 | 8 | -2.023940752827107e+207 | 100.0 | nan

Table: Training accuracies with different hyper-parameters

	n Train Accuracy		d Train Accuracy		eta Train Accuracy
10	222210838589.31702		1   1.048498682202552e+115		0.1   1.3688696322466742e+109
50	4.331434069256869e+68		2   -2.0447571514836e+107		1.0   2.4957238892139768e+206
100	5.274163067686632e+100		4   -6.538832571261431e+102		10.0   nan
200	1.031249162317036e+134		8   -9.862676818049747e+102		100.0   nan

Table: Test accuracies with different hyper-parameters

	n Train Accuracy		d Train Accuracy		eta Train Accuracy
10	1.0991785244859063e+211		1   2.018629486284991e+218		0.1   1.1666546792222745e+213
50	-1.1556324470655328e+211		2   3.6610635816492964e+213		1.0   nan
100	1.869850829829545e+212		4   -2.7752181031330745e+210		10.0   nan
200	9.41827661060726e+218		8   4.9963895597982694e+207		100.0   nan

Table: Training accuracies with different hyper-parameters

	n Train Accuracy		d Train Accuracy		eta Train Accuracy
10	34486.99553457892		1   7.971186299368589e+108		0.1   1.962894937549345e+113
50	5.3682770757674206e+79		2   1.3274255745294257e+111		1.0   1.4262489057588542e+208
100	8.087157865994455e+112		4   3.288654377702259e+111		10.0   nan
200	1.0189532117848103e+142		8   6.628621549504055e+105		100.0   nan

Table: Test accuracies with different hyper-parameters

	n Train Accuracy		d Train Accuracy		eta Train Accuracy
10	7.24046685105125e+207		1   1.3261402344818238e+216		0.1   5.795881679561243e+215
50	7.180892594247852e+209		2   6.798717609946388e+212		1.0   nan
100	5.208894669842217e+214		4   1.536252413110984e+211		10.0   nan
200	2.8640681784164634e+218		8   1.6515416495739516e+206		100.0   nan

Table: Training accuracies with different hyper-parameters

	n	Train Accuracy	d	Train Accuracy	eta	Train Accuracy
10	0.2819572084565329	1	1.5209556191952232e+109	0.1	-3.539851436559606e+108	
50	1.2080233555974786e+76	2	-2.0370980783508147e+107	1.0	5.0275062602879866e+206	
100	3.0759995681514826e+104	4	9.39016043319223e+103	10.0	-inf	
200	-6.37160051823048e+141	8	2.8280928663633546e+103	100.0	nan	

Table: Test accuracies with different hyper-parameters

	n	Train Accuracy	d	Train Accuracy	eta	Train Accuracy
10	-1.789194054737817e+210	1	5.653988483925868e+219	0.1	-8.424980555228248e+214	
50	1.0420787746382297e+210	2	2.9258858299320865e+213	1.0	nan	
100	3.254590873259859e+212	4	3.758755946023058e+209	10.0	nan	
200	-9.410806117007835e+216	8	4.922142003006977e+208	100.0	nan	

Table: Training accuracies with different hyper-parameters

	n	Train Accuracy	d	Train Accuracy	eta	Train Accuracy
10	-111030989195.0353	1	1.6605394849938873e+108	0.1	2.647043679342675e+112	
50	2.9630071456308273e+69	2	7.771493058438369e+105	1.0	8.629389966108618e+213	
100	3.0751777888999723e+113	4	-2.6413837866338894e+103	10.0	nan	
200	4.147782675843174e+143	8	1.8626416759119118e+100	100.0	nan	

Table: Test accuracies with different hyper-parameters

	n	Train Accuracy	d	Train Accuracy	eta	Train Accuracy
10	2.2082690441551187e+209	1	2.074987615257864e+218	0.1	9.320842998156603e+211	
50	-3.095807529458024e+210	2	1.0061978904055831e+213	1.0	nan	
100	5.1896201894310066e+212	4	4.6076555325565584e+210	10.0	nan	
200	6.4100381449629616e+218	8	-9.8459806547834e+209	100.0	nan	

Table: Training accuracies with different hyper-parameters

n	Train Accuracy	d	Train Accuracy	eta	Train Accuracy
10	0.39946545374224174	1	-1.3750336711125222e+108	0.1	1.195464822638583e+106
50	1.0298996934812005e+86	2	1.0527322028949962e+110	1.0	2.8432728670152656e+204
100	5.8123611858801455e+113	4	9.971545739206162e+100	10.0	2.243725905236675e+301
200	3.39866402036759e+143	8	-2.050144287692182e+104	100.0	nan

Table: Test accuracies with different hyper-parameters

n	Train Accuracy	d	Train Accuracy	eta	Train Accuracy
10	2.5494631968652987e+210	1	1.3515686151304811e+219	0.1	-3.023722795230347e+213
50	2.05627558454757e+212	2	2.1670934641196004e+212	1.0	nan
100	-7.427742822466881e+213	4	1.0110191656431314e+210	10.0	nan
200	1.0454333739952234e+217	8	1.8018362537823652e+207	100.0	nan

Table: Training accuracies with different hyper-parameters

n	Train Accuracy	d	Train Accuracy	eta	Train Accuracy
10	1.0173766401275547e+17	1	7.377284841675986e+119	0.1	6.12359667238757e+108
50	-8.953539959263947e+85	2	1.0609083110224302e+104	1.0	-1.0978898000646534e+216
100	1.6412858732066194e+108	4	-4.431563737879841e+105	10.0	nan
200	1.0558853839212934e+139	8	6.669058297244642e+104	100.0	nan

Table: Test accuracies with different hyper-parameters

n	Train Accuracy	d	Train Accuracy	eta	Train Accuracy
10	-2.07176904540019e+210	1	4.847590308635903e+217	0.1	3.501520344524358e+214
50	2.932680612646422e+213	2	1.5005307381745495e+216	1.0	nan
100	2.4051722639317367e+213	4	7.869817860774859e+210	10.0	nan
200	-1.2822745966436432e+217	8	1.859194279106361e+206	100.0	nan

Table: Training accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10	7607657681.959407	1	2.3523304148498917e+117	0.1	1.3424227092022626e+113
50	1.2510294253402544e+87	2	1.8626011116782328e+112	1.0	-3.4252774504026406e+214
100	4.333494006966124e+110	4	5.508926259686591e+104	10.0	1.0718833349534291e+306
200	-1.7456151715758696e+139	8	4.852648268757867e+101	100.0	nan

Table: Test accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10	2.4847756700443987e+208	1	3.0491365353730256e+219	0.1	1.5878848054884207e+215
50	-2.351295907593162e+213	2	5.396936227780599e+215	1.0	nan
100	1.944168495438501e+214	4	2.8398685635458535e+210	10.0	nan
200	2.536377354056239e+219	8	-1.2459479069179761e+209	100.0	nan

Table: Training accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10	2.34279531467458e+23	1	2.676343878117755e+114	0.1	2.2507451555428074e+109
50	2.6925428089427353e+77	2	4.635851101467152e+112	1.0	-3.1150323024469405e+211
100	1.5780946079654223e+110	4	1.466406613410248e+100	10.0	7.303308756353538e+305
200	1.7255405787286054e+136	8	3.126865905445952e+104	100.0	nan

Table: Test accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10	-8.224081940224896e+209	1	8.203245763937687e+217	0.1	5.6825041335030605e+212
50	3.937508283616992e+212	2	-8.395452854425826e+214	1.0	nan
100	5.57091308492374e+215	4	4.861488940297035e+208	10.0	nan
200	1.8332366619617454e+218	8	-2.2694496879890996e+207	100.0	nan

Table: Training accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10	33.105582706219536	1	1.5630491588013527e+115	0.1	1.4727007957547217e+112
50	-6.3414889009447405e+78	2	6.199105835058454e+113	1.0	-9.307304647200071e+208
100	1.477835025061924e+111	4	-1.5295463149263359e+106	10.0	-1.74294270221403e+305
200	-1.3115603084634156e+142	8	-4.77009194416044e+106	100.0	nan

Table: Test accuracies with different hyper-parameters

	n Train Accuracy	d Train Accuracy	eta Train Accuracy
10	1.873972668316769e+209	1	1.373546009524462e+218   0.1  1.0578578638484961e+215
50	3.595468240434825e+211	2	7.539515897157456e+214   1.0  nan
100	-1.0162745197972116e+215	4	1.7153280802927605e+208   10.0  nan
200	4.6618795191914155e+216	8	-7.898400918184576e+207   100.0  nan

Table: Training accuracies with different hyper-parameters

	n Train Accuracy	d Train Accuracy	eta Train Accuracy
10	89994629695.42435	1	-3.208314467281618e+114   0.1   -1.2518958987789966e+105
50	1.444738299903465e+82	2	3.619371359215702e+114   1.0  2.175857248653924e+201
100	1.5897896290177855e+102	4	-5.501833361503429e+105   10.0  nan
200	2.047570016260969e+139	8	5.403400960668278e+103   100.0  nan

Table: Test accuracies with different hyper-parameters

	n Train Accuracy	d Train Accuracy	eta Train Accuracy
10	8.848725321818371e+208	1	3.3062178159867884e+218   0.1  3.494100574486856e+215
50	-7.115310991424298e+210	2	-1.584765859958402e+215   1.0  nan
100	8.431010787221646e+213	4	-1.0329736134021042e+210   10.0  nan
200	4.395497729266238e+215	8	-2.4751174069678843e+208   100.0  nan

Table: Training accuracies with different hyper-parameters

	n Train Accuracy	d Train Accuracy	eta Train Accuracy
10	-17152707.216563214	1	-1.6465087566325106e+118   0.1  3.219298049499785e+112

50		-4.265533157264016e+83		2		1.917523908998881e+107		1.0		7.5067469798538e+210
100		-4.462915271504992e+110		4		-3.0904895085645947e+111		10.0		-inf
200		2.8629310726257233e+137		8		4.7756328206790796e+101		100.0		nan

Table: Test accuracies with different hyper-parameters

	n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy		
10		4.068912961491508e+212		1		1.522667941803755e+217		0.1		1.6504300392110376e+215
50		6.412664311668106e+211		2		1.4034162141939654e+213		1.0		nan
100		1.0585121870743924e+213		4		9.213106964507121e+210		10.0		nan
200		1.8045832491496834e+217		8		-1.0980292604829625e+207		100.0		nan

Table: Training accuracies with different hyper-parameters

	n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy		
10		1.1770998343497352e+17		1		5.047352802684239e+114		0.1		2.2696399534563454e+113
50		6.268825050991161e+75		2		1.2783235846402743e+107		1.0		-3.001389098428917e+206
100		-1.3074613842700667e+113		4		1.1971839419182339e+110		10.0		nan
200		1.1661443975666693e+142		8		3.4134063410387392e+103		100.0		nan

Table: Test accuracies with different hyper-parameters

	n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy		
10		1.62478106309587e+210		1		-6.534151327883731e+218		0.1		2.8324925217693804e+214
50		8.2143060827167e+211		2		4.21448216383771e+215		1.0		nan
100		-9.58058361817666e+214		4		4.837453638750577e+211		10.0		nan
200		3.085493673770858e+217		8		-4.1975075109402567e+207		100.0		nan

Table: Training accuracies with different hyper-parameters

	n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy		
10		4.435342061440804e+24		1		-3.8811753084542345e+113		0.1		1.0901504632933053e+109
50		6.282695240051364e+80		2		1.1114834239119378e+115		1.0		9.633530399950132e+206



100	4.858703459778015e+105	4	4.069225306586355e+113	10.0	nan
200	-2.995684584941822e+137	8	5.834678622014509e+102	100.0	nan

Table: Test accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy
10	-3.862262252937514e+210	1	7.004046467872871e+217	0.1	-4.8938811413925154e+213		
50	2.346008584552684e+213	2	3.579987900835508e+212	1.0	nan		
100	-8.756078561599857e+212	4	6.043446677041595e+210	10.0	nan		
200	3.142337975229202e+217	8	-1.6133585948663743e+205	100.0	nan		

Table: Training accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy
10	1.4619902258800357e+30	1	9.88961281654279e+112	0.1	4.986817586407131e+107		
50	1.1339567821752384e+87	2	-4.9300775127757725e+109	1.0	8.335699028630668e+207		
100	2.860835552437352e+109	4	6.096607826792125e+102	10.0	nan		
200	4.446987731317298e+143	8	2.5358681834882754e+103	100.0	nan		

Table: Test accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy
10	2.4284456088697287e+207	1	-2.7094011360412828e+218	0.1	4.973895400368286e+213		
50	1.488694399642186e+212	2	2.0705802400736193e+214	1.0	nan		
100	1.9588899193613342e+213	4	1.8434709595352786e+210	10.0	nan		
200	-5.13094594325114e+220	8	2.4939525532758424e+209	100.0	nan		

Table: Training accuracies with different hyper-parameters

n	Train Accuracy		d	Train Accuracy		eta	Train Accuracy
10	2.1609609580098617e+31	1	1.0858514710929044e+105	0.1	1.5620475703756194e+106		
50	-7.859725662753783e+86	2	-1.4128151751261687e+114	1.0	-1.5439256686766505e+213		
100	-1.5995383708859058e+109	4	3.611190978164333e+102	10.0	-inf		

200 | 5.495569877393121e+138 | 8 | 1.441437064302413e+105 | 100.0 | nan

Table: Test accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10 | -9.740011772478286e+212 | 1 | 9.381402300776995e+217 | 0.1 | 2.4287051174030895e+215

50 | 1.1246420752563472e+212 | 2 | 4.885153678522617e+215 | 1.0 | nan

100 | 8.1487792926290535e+214 | 4 | 5.55319822077979e+210 | 10.0 | nan

200 | 5.470372376975281e+217 | 8 | 3.083254670672823e+207 | 100.0 | nan

Table: Training accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10 | 3900377344491932.0 | 1 | -5.887775137223824e+112 | 0.1 | 3.006108223019421e+105

50 | -1.542943610570632e+77 | 2 | 9.377051425520647e+112 | 1.0 | -1.1200379664711533e+209

100 | 4.5250197509263984e+111 | 4 | 1.8184681715117387e+103 | 10.0 | nan

200 | 1.0016886119644676e+140 | 8 | 2.8611343669399314e+107 | 100.0 | nan

Table: Test accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10 | 3.226178796000382e+210 | 1 | 2.1716421468530835e+216 | 0.1 | 3.920901825295131e+213

50 | 4.801961978507288e+212 | 2 | -4.539338147523738e+214 | 1.0 | nan

100 | -3.740930037902427e+215 | 4 | 9.200630584344656e+208 | 10.0 | nan

200 | -2.59798310222858e+218 | 8 | 4.096517059904767e+207 | 100.0 | nan

Table: Training accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10 | -1.8767451639943852e+18 | 1 | -3.7360565423263436e+111 | 0.1 | -4.9213704024168455e+107

50 | 7.184319948227954e+78 | 2 | -7.468730060892563e+101 | 1.0 | -1.5819334641347882e+204

100 | 1.3258701633847002e+106 | 4 | 2.0220198154728718e+109 | 10.0 | -inf

200 | -1.922588738481227e+142 | 8 | 2.3285122341524413e+101 | 100.0 | nan

Table: Test accuracies with different hyper-parameters

n Train Accuracy | d Train Accuracy | eta Train Accuracy

10 | 1.6772170644314406e+208 | 1 | -3.2129071383124196e+218 | 0.1 | -5.470861587194502e+213

50 | 9.442963359332107e+212 | 2 | 7.346182358752401e+213 | 1.0 | nan

100 | 1.153943092266797e+213 | 4 | 7.771180621489425e+210 | 10.0 | nan

200 | -1.6000391726757255e+218 | 8 | 4.3407632922284933e+207 | 100.0 | nan

2e)

The data that I seen in the tables is that I realized that the eta hyper parameter has a huge impact on the data points. It is because I seen they cause the training parameters to have high values than the cause of other hyper parameters. If the step size if very high, then the average of the w vector has a high value. Also, as the dimensions (d) increases, then the test data decreases. It is because when the vector w has more parameters, then it gets closer to the curve. The other thing we notice on the tables is that the more of the test case points can causes the averages to have a bigger value. If there are more amount of data points then there will be a bigger average.

3d) Removed the name data from the parkinsons data as this data is not directly correlated with the data and could lead to improper correlations made by the model.