Final updated Weights between Input Layer and Hidden Layer

| | H1 | H2 | H3 | H4 | H5 | H6 | H7 |
|---|---|---|---|---|---|---|---|
| *I1* | -1.59775 | 0.419964 | 1.125028 | 0.391176 | -0.26939 | -0.72418 | 0.469852 |
| *I2* | 0.894277 | 0.407707 | -1.51286 | 0.991199 | 1.281342 | -2.30274 | 0.140834 |
| *I3* | 0.461148 | 2.066272 | 0.96753 | 1.505013 | -1.09798 | 1.219911 | 1.367445 |
| *I4* | 0.763418 | 0.566152 | -2.09217 | -1.17484 | -3.52112 | 0.375013 | 0.674313 |
| *I5* | -0.91419 | -0.42677 | 0.217823 | 0.417938 | 3.136245 | -0.14304 | -0.30992 |
| *I6* | 1.637561 | -2.20503 | 0.566301 | -0.51158 | -0.47068 | -0.51973 | 0.308021 |
| *I7* | -1.05999 | -0.24283 | -0.40072 | -0.1624 | -0.40265 | -1.19564 | 1.784764 |
| *I8* | 0.551544 | 0.509123 | -0.02664 | 0.120065 | 0.484673 | -0.21108 | 0.496673 |
| *I9* | 1.143759 | -0.0258 | 0.214474 | -0.15188 | -0.16481 | -2.27767 | -1.17033 |
| *I10* | 1.038014 | -1.22102 | -0.20276 | -0.60824 | 0.14605 | -2.17833 | -1.90644 |
| *I11* | -0.44584 | -0.91512 | -0.37679 | 0.409898 | -1.89123 | 0.286813 | 0.67875 |
| *I12* | -0.93232 | 0.041094 | -0.45406 | -0.81577 | 0.995994 | 0.519044 | 0.332035 |
| *I13* | -1.28701 | -0.99034 | -0.90582 | -1.00798 | 0.908332 | 0.26007 | 0.982745 |
| *I14* | 0.541446 | -1.25789 | 3.220282 | 1.559905 | 0.058421 | -1.77679 | -1.24855 |
| *I15* | 0.614489 | -0.6401 | -0.79441 | 0.083665 | 3.202897 | 0.558088 | 0.848725 |
| *I16* | -0.46439 | 0.801812 | 1.74424 | 0.457433 | -1.32794 | -0.31907 | 0.180192 |
| *I17* | 3.963277 | 0.685015 | -0.82299 | 0.043098 | -0.32858 | 1.035417 | -1.58896 |
| *I18* | -0.31544 | 0.734448 | -0.12627 | -1.20531 | -0.10545 | -0.43659 | -1.37578 |
| *I19* | -0.70327 | 0.890187 | 1.409854 | 0.141011 | 0.37357 | 0.524193 | 1.022834 |
| *I20* | 0.655216 | -0.48109 | -0.06637 | 0.846189 | 3.62673 | 0.529808 | -0.22534 |
| *I21* | 0.857983 | -0.24565 | -0.1557 | -0.35929 | -0.01386 | 0.872544 | 1.636869 |
| *I22* | -0.68978 | -0.55693 | -0.82092 | 2.303329 | -1.66002 | 0.742979 | -0.69876 |
| *I23* | -0.38904 | 2.436175 | -1.56557 | 0.671623 | 1.254861 | -0.30964 | -1.69871 |
| *I24* | 1.30975 | -0.33026 | -0.53308 | 0.637164 | -1.22546 | -0.76104 | 1.334868 |
| *I25* | -1.00567 | -1.57823 | 0.682024 | -0.30551 | 2.790448 | 1.919852 | -1.99696 |
| *I26* | -1.04718 | 0.076698 | 0.266987 | 0.502807 | -2.36374 | 0.619788 | -0.55279 |
| *I27* | 3.457164 | 1.629177 | 0.882239 | 0.131015 | -0.35065 | -0.81832 | -2.7548 |
| *I28* | -0.52138 | -0.34552 | -0.80712 | -1.00529 | -0.19752 | 0.093355 | -0.22187 |
| *I29* | -0.90396 | -1.14189 | 1.307335 | 0.937169 | 0.942436 | -0.00097 | 1.826737 |
| *I30* | 1.482588 | -0.19763 | -1.47834 | -1.55314 | -2.70603 | 0.38587 | -1.48014 |

| | H8 | H9 | H10 | H11 | H12 | H13 | H14 |
|---|---|---|---|---|---|---|---|
| *I1* | 2.909118 | 0.684816 | 1.041542 | 1.087281 | 0.4274 | 1.382519 | -0.47833 |
| *I2* | -0.84568 | -0.73174 | -0.95352 | 0.603967 | -0.1985 | 0.202784 | -0.76494 |
| *I3* | 0.899906 | 1.184544 | 1.052357 | 0.231308 | -0.00046 | 1.042289 | 0.669677 |
| *I4* | -0.30969 | -0.84345 | 1.064251 | -1.50339 | -0.30338 | -0.01478 | 0.388783 |
| *I5* | -1.65093 | -1.42936 | -1.2743 | 2.423585 | 1.376467 | -1.2807 | 6.487749 |
| *I6* | -0.79886 | 1.325699 | -0.32236 | -2.57637 | 1.756959 | -1.1656 | 3.33993 |
| *I7* | 1.008012 | -3.25009 | -0.50624 | -0.55615 | 0.890024 | 0.388677 | 0.502725 |
| *I8* | -0.00939 | -0.6308 | -1.82521 | -0.09046 | -0.68825 | 0.542634 | -0.336 |
| *I9* | -3.80849 | -3.20407 | -2.21332 | -1.74517 | -0.50336 | 0.185309 | 0.525036 |
| *I10* | -0.50276 | -1.39685 | 2.042864 | 0.309638 | -0.30595 | 1.413978 | -0.63571 |
| *I11* | 1.051678 | -0.72186 | -0.29501 | 0.08936 | 0.281203 | 0.989776 | -0.0808 |
| *I12* | -1.1486 | -0.25476 | -0.89074 | -1.86091 | -1.20367 | -0.29677 | -0.98504 |
| *I13* | -0.353 | -0.21548 | 0.919428 | 0.827653 | -1.53959 | -0.70292 | 0.426358 |
| *I14* | -0.75489 | 0.830088 | 0.753374 | 1.156375 | 0.406231 | -1.70775 | 0.137054 |
| *I15* | -1.36743 | 0.94021 | 0.044921 | 0.521938 | -1.52031 | 1.125936 | 1.941821 |
| *I16* | 0.685205 | -0.03388 | -2.74057 | -1.99959 | 1.96579 | 0.596256 | -1.26884 |
| *I17* | -0.21978 | -2.14825 | -0.52699 | -0.58347 | 1.163705 | 0.422831 | 0.262544 |
| *I18* | 1.043548 | -1.21365 | 1.788277 | 2.949114 | 1.765099 | 0.808904 | -0.97401 |
| *I19* | 2.04986 | -2.30654 | 0.774114 | 1.874336 | 0.601146 | -0.28285 | -1.2911 |
| *I20* | 0.852688 | -0.12285 | -1.61633 | 0.040375 | 0.319881 | 0.788812 | -0.19438 |
| *I21* | 0.605988 | -0.59324 | -0.20992 | -0.89437 | 0.01422 | 0.24112 | 1.521713 |
| *I22* | -0.27806 | -0.74665 | 0.49876 | -0.65163 | -0.87943 | -0.03901 | 0.951228 |
| *I23* | -0.13476 | -0.21052 | -0.64054 | 0.836577 | 0.819029 | -0.30534 | -0.68459 |
| *I24* | 0.128219 | 1.38513 | -0.69613 | 1.902505 | 2.742599 | 1.241939 | 1.455954 |
| *I25* | 0.689352 | 0.853825 | -1.63702 | 0.251187 | -1.12362 | -0.6981 | 0.776848 |
| *I26* | -0.70363 | 2.811793 | 0.207643 | -2.30536 | 0.453605 | -0.87089 | 1.69094 |
| *I27* | 0.607052 | 1.444231 | -0.8757 | -0.83857 | -1.96675 | 0.47776 | -0.70461 |
| *I28* | 0.2266 | -0.24401 | 1.713224 | -1.51683 | 0.982598 | -0.19039 | 1.006363 |
| *I29* | -1.9353 | -2.57906 | 3.434975 | -0.80625 | -0.19564 | -0.77635 | -0.20002 |
| *I30* | 0.363863 | 0.631582 | 0.107731 | -0.10267 | 1.589327 | -0.50832 | -0.47652 |

| | H15 | H16 | H17 | H18 | H19 | H20 | H21 |
|---|---|---|---|---|---|---|---|
| *I1* | 2.50237 | 1.572046 | -0.71006 | -1.0389 | 1.711629 | 0.338638 | 0.42656 |
| *I2* | -0.86018 | -0.51689 | 0.643054 | 0.963099 | 0.831273 | 0.769421 | 1.742767 |
| *I3* | -0.00362 | -0.49486 | 0.756211 | 0.338086 | -0.39551 | 0.26992 | -0.50756 |
| *I4* | 1.816908 | 0.364289 | -1.13995 | 0.818672 | 0.029239 | -0.24152 | -2.57504 |
| *I5* | 1.626819 | -0.51293 | 0.95806 | -0.26074 | 0.379956 | 1.667459 | 0.712209 |
| *I6* | -0.44668 | -0.93508 | -1.59059 | -0.13982 | 0.113653 | 1.3624 | 0.470518 |
| *I7* | 0.926775 | -0.67848 | 0.960594 | -1.75952 | -0.23393 | 0.948778 | 0.789186 |
| *I8* | 0.816298 | -0.12028 | -1.17022 | -0.94436 | 0.498476 | -1.05559 | -0.58491 |
| *I9* | -0.92011 | 0.814782 | -1.81219 | -1.06329 | -0.69039 | -2.19881 | 1.837217 |
| *I10* | -0.64697 | -0.8358 | 0.61964 | 0.952878 | -0.60197 | -0.40417 | -0.35171 |
| *I11* | 0.179243 | 0.339769 | 0.522285 | -0.85312 | -0.05338 | -1.37472 | -0.16986 |
| *I12* | -1.78091 | -1.46856 | 1.304427 | -0.25378 | 0.280317 | -0.45103 | -0.18194 |
| *I13* | -1.60273 | -0.37167 | 0.53178 | -0.27019 | 0.479818 | -0.96212 | 0.139793 |
| *I14* | -1.05387 | 1.894026 | -0.70051 | -1.55229 | -0.41069 | -0.87751 | 0.119562 |
| *I15* | 1.286689 | 0.268903 | 0.157453 | 1.557354 | 3.232509 | 0.108995 | -1.20874 |
| *I16* | -0.61446 | 0.065522 | -1.23736 | 0.053664 | -1.10233 | 0.170505 | -0.02021 |
| *I17* | -0.06866 | -0.93271 | -0.11932 | 1.849653 | 2.817656 | -1.29791 | 0.885268 |
| *I18* | -1.17012 | 1.021783 | -0.34444 | 2.401189 | 0.32319 | -1.1064 | -0.00456 |
| *I19* | 0.270196 | 2.140986 | 0.018514 | 1.5228 | -1.74281 | 1.962519 | 0.508427 |
| *I20* | 0.767613 | -0.36078 | 1.047413 | -0.13512 | 0.010555 | 1.535124 | -0.83423 |
| *I21* | 2.561315 | -1.58628 | 0.543868 | 1.015859 | 1.375507 | 0.347528 | 0.517904 |
| *I22* | -0.64597 | -0.68355 | 0.219961 | -0.47341 | 0.106617 | 0.899014 | 0.31695 |
| *I23* | -0.68781 | 0.083939 | -0.62471 | 0.80386 | 0.68724 | 0.597133 | -1.23977 |
| *I24* | 0.394891 | 0.490372 | 0.970033 | 0.233019 | 0.169288 | -0.55003 | 0.396422 |
| *I25* | 0.32903 | 0.086631 | -1.02026 | 2.156051 | 1.622522 | -0.52441 | -0.25084 |
| *I26* | 1.195601 | 1.334943 | 1.263664 | -0.07477 | -2.0011 | 1.172901 | -0.04394 |
| *I27* | 0.674775 | -0.00475 | -0.21092 | -2.12965 | -0.22353 | 0.263071 | -1.81786 |
| *I28* | -1.06779 | -0.14388 | 1.079414 | -0.94519 | 1.092135 | 0.32301 | -1.42909 |
| *I29* | 1.382326 | 0.129652 | -0.81658 | -1.56824 | 0.375148 | -2.68068 | -0.43256 |
| *I30* | -0.54021 | -0.46547 | -5.64549 | -0.45572 | 0.539587 | 1.124769 | 0.311043 |

$I_i$ = $i^{th}$ Node of Input Layer

$H_i$ = $i^{th}$ Node of Hidden Layer

# Final updated Weights between Hidden Layer and Output Layer

| | O1 |
|---|---|
| *H1* | -2.39344 |
| *H2* | 3.332038 |
| *H3* | -2.0036 |
| *H4* | 3.132285 |
| *H5* | 4.519758 |
| *H6* | -0.9136 |
| *H7* | -2.14329 |
| *H8* | 2.693501 |
| *H9* | -3.56779 |
| *H10* | 4.02772 |
| *H11* | -2.58782 |
| *H12* | -0.82765 |
| *H13* | 3.276332 |
| *H14* | 3.084066 |
| *H15* | 0.862527 |
| *H16* | 3.149473 |
| *H17* | 2.240549 |
| *H18* | -1.85673 |
| *H19* | 2.326454 |
| *H20* | 1.094811 |
| *H21* | -3.0496 |

$H_i$ = $i^{th}$ Node of Hidden Layer

$O_i$ = $i^{th}$ Node of Output Layer

# Final updated Threshold / Bias for Nodes of our Neural Network

| | |
|---|---|
| I1 | -0.68601 |
| I2 | -0.99017 |
| I3 | 0.280717 |
| I4 | 0.683415 |
| I5 | -0.97386 |
| I6 | 0.094425 |
| I7 | 0. 046321 |
| I8 | -0.35435 |
| I9 | 0.112184 |
| I10 | -0.66524 |
| I11 | 0.418214 |
| I12 | 0.564047 |
| I13 | 0.052374 |
| I14 | 0.183991 |
| I15 | -0.43161 |
| I16 | 0.098597 |
| I17 | 0.011336 |
| I18 | -0.08293 |
| I19 | 0.585564 |
| I20 | 0.855444 |
| I21 | 0.840451 |
| I22 | 0.250415 |
| I23 | -0.91640 |
| I24 | -0.50914 |
| I25 | 0.770256 |
| I26 | 0.215808 |
| I27 | 0.693952 |
| I28 | -0.44694 |
| I29 | -0.30618 |
| I30 | 0.267008 |

| | |
|---|---|
| H1 | -0.30667 |
| H2 | 0.000314 |
| H3 | 0.431675 |
| H4 | -0.40041 |
| H5 | 0.580447 |
| H6 | 0.480645 |
| H7 | 0.268538 |
| H8 | -0.55995 |
| H9 | 0.368298 |
| H10 | -1.25921 |
| H11 | 0.696257 |
| H12 | 0.597677 |
| H13 | 1.39483 |
| H14 | -0.02566 |
| H15 | 0.344727 |
| H16 | 1.114165 |
| H17 | -0.45236 |
| H18 | 0.394518 |
| H19 | -0.06925 |
| H20 | -0.33521 |
| H21 | 0.783408 |

| | |
|---|---|
| O1 | 1.541593 |

$I_i$ = $i^{th}$ Node of Input Layer

$H_i$ = $i^{th}$ Node of Hidden Layer

$O_i$ = $i^{th}$ Node of Output Layer