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| **SECTION** | **HYPERPARAMETER** | **ACCURACY** |
| PART A | Base model | 0.77 |
| PART B | Activation: tanh  Activation: elu  Activation: sigmoid | 0.75  0.78  0.55 |
| PART C | Cost: mean\_Squared\_error  Cost: categorical\_hinge  Cost: cosine\_proximity | 0.77  0.13  0.80 |
| PART D | Epochs: 50  Epochs: 75  Epochs: 100 | 0.77  0.80  0.86 |
| PART E | Optimizer: Adam  Optimizer: RMSProp  Optimizer: Adagrad | 0.77  0.80  0.77 |
| PART F | Number of layers: 3  Number of layers :4  Filters:(128,64) | 0.76  0.75  0.79 |
| PART G | Initializer: glorot\_uniform  Initializer: Zeros  Initilaizer: RandomUniform | 0.77  0.27  0.75 |

**CONCLUSION**

**BASE MODEL:** Epochs: 50, Number of layers :2, Activation function: relu,

cost\_function: categorical\_crossentropy, optimizer: Adam, network\_initialization: glorot\_uniform