551 AI

Assignment 5 Report

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The best 3 architectures using adagrad are as follows

1. Test accuracy = 95.85

num\_of\_layers: 3

* Layer 0: 32
* Activation function 0: tanh
* Layer 1: 128
* Activation function 1: relu
* Layer 2: 32
* Activation function 2: relu
* Score: 0.9585416515668234

Diagram, schematic

Description automatically generated

2. Test accuracy = 95 %

num\_of\_layers: 4

* Layer 0: 32
* Activation function 0: sigmoid
* Layer 1: 96
* Activation function 1: relu
* Layer 2: 96
* Activation function 2: tanh
* Layer 3: 128
* Activation function 3: tanh

Diagram

Description automatically generated

3. Test Accuracy = 94.89 %

num\_of\_layers: 5

* Layer 0: 128
* Activation function 0: sigmoid
* Layer 1: 128
* Activation function 1: tanh
* Layer 2: 96
* Activation function 2: tanh
* Layer 3: 32
* Activation function 3: relu
* Layer 4: 32
* Activation function 4: relu
* Score: 0.9489236076672872

Diagram

Description automatically generated