

## RNN VALIDATION ACCURACY AND LOSS

hd32 e50

Validation Accuracy for hd32\_e50\_rnn : [0.52, 0.49875, 0.55625, 0.5625, 0.5925, 0.595, 0.5775, 0.57875, 0.6325, 0.635, 0.64375, 0.63625, 0.635, 0.6525, 0.64375, 0.6425, 0.6525, 0.6275, 0.6525, 0.6425, 0.635, 0.63125, 0.6275, 0.65, 0.63, 0.62625, 0.62875, 0.64, 0.62625, 0.6275, 0.62625, 0.63375, 0.62125, 0.62125, 0.625, 0.63875, 0.63375, 0.6225, 0.63, 0.62, 0.61125, 0.6275, 0.62125, 0.62625, 0.63125, 0.61875, 0.62375, 0.64, 0.61125, 0.625]

Loss after each Epoch for hd32\_e50\_rnn [1.1142412424087524, 0.9900992512702942, 0.9567651152610779, 0.929362952709198, 0.8921268582344055, 0.880946934223175, 0.861569881439209, 0.8488643765449524, 0.8334406018257141, 0.8238691091537476, 0.8126202821731567, 0.8007404804229736, 0.7909042835235596, 0.7768158316612244, 0.768817126750946, 0.758657693862915, 0.7574726939201355, 0.7516610622406006, 0.740337610244751, 0.730068564414978, 0.7209179401397705, 0.7136788964271545, 0.7001993060112, 0.6922003626823425, 0.6840862035751343, 0.6847161650657654, 0.674876868724823, 0.6691522598266602, 0.667969822883606, 0.6480939388275146, 0.6445374488830566, 0.6308338046073914, 0.6314377188682556, 0.6198025941848755, 0.6114504337310791, 0.61001056432724, 0.6034426689147949, 0.5947609543800354, 0.5879955291748047, 0.5797536373138428, 0.5670905113220215, 0.5640403628349304, 0.5589362978935242, 0.5391871929168701, 0.5374171733856201, 0.5373925566673279, 0.5263209342956543, 0.5218963027000427, 0.5175346732139587, 0.5070948600769043]

Hd64 e50

### Validation Accuracy List:

[0.50375, 0.52125, 0.54625, 0.5975, 0.58125, 0.5875, 0.61875, 0.6125, 0.635, 0.62375, 0.6225, 0.645, 0.63, 0.6525, 0.64375, 0.64625, 0.6575, 0.6225, 0.6525, 0.6075, 0.61625, 0.6175, 0.63, 0.65, 0.62375, 0.64, 0.60875, 0.60875, 0.6075, 0.62, 0.6, 0.615, 0.6, 0.595, 0.6, 0.61625, 0.6125, 0.60125, 0.61375, 0.61875, 0.61, 0.6125, 0.60625, 0.60375, 0.5925, 0.6025, 0.585, 0.585, 0.60125, 0.5975]

### Training Loss List:

[1.0853302478790283, 0.9872071146965027, 0.9566112160682678, 0.9122618436813354, 0.8851922154426575, 0.8546093702316284, 0.8397538065910339, 0.8210199475288391, 0.7996168732643127, 0.7904025912284851, 0.7798172831535339, 0.7702736854553223, 0.7507266402244568, 0.7428344488143921, 0.7265226244926453, 0.7148225903511047, 0.7000156044960022, 0.6934062242507935, 0.6677635908126831, 0.6613324880599976, 0.646144688129425, 0.6227970719337463, 0.6098154187202454, 0.5974912047386169, 0.5746501088142395, 0.5588579773902893, 0.5435806512832642, 0.5331640839576721, 0.5137720704078674, 0.4925694763660431, 0.4807805120944977, 0.45973119139671326,

0.446143239736557, 0.44301527738571167, 0.4250679016113281, 0.40380966663360596,  
0.3863842785358429, 0.3895778954029083, 0.3584046959877014, 0.35027486085891724,  
0.3420851528644562, 0.32714658975601196, 0.3267432451248169, 0.3181793689727783,  
0.3069685399532318, 0.2916920781135559, 0.2782089412212372, 0.2902020215988159,  
0.26943838596343994, 0.2583075165748596]

Hd128 e50

Validation Accuracy: [0.505, 0.47, 0.58375, 0.57625, 0.61, 0.6075, 0.61875, 0.62375, 0.6225,  
0.64, 0.665, 0.66, 0.65, 0.64375, 0.6475, 0.65375, 0.64875, 0.62125, 0.64125, 0.6425, 0.62625,  
0.6375, 0.6425, 0.63875, 0.63, 0.62625, 0.6225, 0.625, 0.62375, 0.6275, 0.61875, 0.62375,  
0.6125, 0.60375, 0.60625, 0.60625, 0.6025, 0.62, 0.62125, 0.63, 0.60125, 0.60125, 0.61875,  
0.5825, 0.59875, 0.6025, 0.6, 0.60625, 0.5925, 0.615]

Training Loss: [1.0689496994018555, 1.0017818212509155, 0.9385671615600586,  
0.878283679485321, 0.8513067364692688, 0.8319618105888367, 0.8062198162078857,  
0.7936469912528992, 0.7748745083808899, 0.7591733336448669, 0.7359605431556702,  
0.722718358039856, 0.6952850818634033, 0.6758641600608826, 0.6497935652732849,  
0.6212392449378967, 0.6005831360816956, 0.5628965497016907, 0.5350798964500427,  
0.49531781673431396, 0.45863065123558044, 0.41362306475639343,  
0.38600021600723267, 0.3540157079696655, 0.3159327208995819, 0.2932724058628082,  
0.26069989800453186, 0.23370757699012756, 0.2249644696712494, 0.1961226612329483,  
0.18181031942367554, 0.1801091730594635, 0.14512863755226135, 0.13613516092300415,  
0.14114467799663544, 0.12372484058141708, 0.1154283732175827, 0.12557311356067657,  
0.11902216076850891, 0.09955799579620361, 0.11267458647489548,  
0.09552150219678879, 0.09004818648099899, 0.09201931953430176, 0.0782930999994278,  
0.07293139398097992, 0.08450959622859955, 0.0856129601597786, 0.08179928362369537,  
0.07662451267242432]