Diagnostic Class: Functional. Outcome Variable: T0T2_SF12_binaryNormedPCS. N: 374. Partition Ratio: 0.7. Training N: 262. Evaluation N: 112. Model Type: selfNormalising. N Features: 169. N Input Units: 571. N Layers: 1. N Units in each Layer[571, 80, 1]. N Epochs: 7000. Time Taken to Train: 0 min(s) 25 sec(s). Binary Accuracy: 0.5892857142857143. Binary AUROC: 0.6344898660254208. Binary R2: -0.769838543455857. Binary Precision: 0.7777777777777778. Binary Recall: 0.49295774647887325. Binary Sensitivity: 0.49295774647887325. Binary Specificity: 0.7560975609756098. Binary Optimal Operating Point: 0.8794855. Feature Set: ['AgeBins', 'Gender', 'T0_SIMD04', 'T0_Inemployment', 'T0_IncapacityBenefitorDLA', 'T0_HADSQ1', 'T0_HADSQ2', 'T0_HADSQ3', 'T0_HADSQ4', 'T0_HADSQ5', 'T0_HADSQ6', 'T0_HADSQ7', 'T0_HADSQ8', 'T0_HADSQ9', 'T0_HADSQ10', 'T0_HADSQ11', 'T0_HADSQ12', 'T0_HADSQ13', 'T0_HADSQ14', 'T0_SF12Q1', 'T0_SF12Q2', 'T0_SF12Q3', 'T0_SF12Q4', 'T0_SF12Q5', 'T0_SF12Q6', 'T0_SF12Q7', 'T0_SF12Q8', 'T0_SF12Q9', 'T0_SF12Q10', 'T0_SF12Q11', 'T0_SF12Q12', 'T0_IPQ1', 'T0_IPQ2', 'T0_IPQ3', 'T0_IPQ4', 'T0_IPQ5', 'T0_IPQ6', 'T0_Worryingalot', 'T0_Wserious', 'T0_Wworry', 'T0_Wbelieve', 'T0_Wseriousworry', 'T0_Wpain', 'T0_Wattention', 'T0_Wsymptoms', 'T0_C1', 'T0_C2', 'T0_C3', 'T0_C4', 'T0_C5', 'T0_C6', 'T0_C7', 'T0_C8', 'T0_C9', 'T0_C10', 'T0_C11', 'T0_C12', 'T0_Sat1', 'T0_Sat2', 'T0_Sat3', 'T0_Sat4', 'T0_Sat5', 'T0_Sat6', 'T0_Sat7', 'T0_Sat8', 'T0_StomachPain', 'T0_BackPain', 'T0_Paininarmslegsjoints', 'T0_Headaches', 'T0_Chestpain', 'T0_Dizziness', 'T0_FaintingSpells', 'T0_HeartPoundingorRacing', 'T0_ShortnessofBreath', 'T0_Constipation', 'T0_NauseaorGas', 'T0_Tired', 'T0_Sleeping', 'T0_Lackofcoordination', 'T0_MemorConcentration', 'T0_LossofSensation', 'T0_LossofVision', 'T0_LossofHearing', 'T0_Paralysisorweakness', 'T0_DoubleorBlurredVision', 'T0_DifficultySwallowing', 'T0_DifficultySpeaking', 'T0_SeizureorFit', 'T0_AnxietyattackorPanicAttack', 'T0_Littleinterestorpleasure', 'T0_Feelingdownorhopeless', 'T0_Nervesorfeelinganxious', 'T1_HADSQ1', 'T1_HADSQ2', 'T1_HADSQ3', 'T1_HADSQ4', 'T1_HADSQ5', 'T1_HADSQ6', 'T1_HADSQ7', 'T1_HADSQ8', 'T1_HADSQ9', 'T1_HADSQ10', 'T1_HADSQ11', 'T1_HADSQ12', 'T1_HADSQ13', 'T1_HADSQ14', 'T1_SF12Q1', 'T1_SF12Q2', 'T1_SF12Q3', 'T1_SF12Q4', 'T1_SF12Q5', 'T1_SF12Q6', 'T1_SF12Q7', 'T1_SF12Q8', 'T1_SF12Q9', 'T1_SF12Q10', 'T1_SF12Q11', 'T1_SF12Q12', 'T1_IPQ1', 'T1_IPQ2', 'T1_IPQ3', 'T1_IPQ4', 'T1_IPQ5', 'T1_IPQ6', 'T1_Worryingalot', 'T1_Wserious', 'T1_Wworry', 'T1_Wbelieve', 'T1_Wseriousworry', 'T1_Wpain', 'T1_Wattention', 'T1_Wsymptoms', 'T1_Sat1', 'T1_Sat2', 'T1_Sat3', 'T1_Sat4', 'T1_Sat5', 'T1_Sat6', 'T1_Sat7', 'T1_Sat8', 'T1_StomachPain', 'T1_BackPain', 'T1_Paininarmslegsjoints', 'T1_Headaches', 'T1_Chestpain', 'T1_Dizziness', 'T1_FaintingSpells', 'T1_HeartPoundingorRacing', 'T1_ShortnessofBreath', 'T1_Constipation', 'T1_NauseaorGas', 'T1_Tired', 'T1_Sleeping', 'T1_Lackofcoordination', 'T1_MemorConcentration', 'T1_LossofSensation', 'T1_LossofVision', 'T1_LossofHearing', 'T1_Paralysisorweakness', 'T1_DoubleorBlurredVision', 'T1_DifficultySwallowing', 'T1_DifficultySpeaking', 'T1_SeizureorFit', 'T1_AnxietyattackorPanicAttack', 'T1_Littleinterestorpleasure', 'T1_Feelingdownorhopeless', 'T1_Nervesorfeelinganxious', 'T1_SymptomsChange', 'T1_HealthChange']

Test Accuracy

Max = 0.95

Test binary_crossentropy

Min = 0.2

Evaluation Accuracy

Max = 0.65

Evaluation binary_crossentropy

Min = 0.65

Histogram of NN Eval Outputs

ROC of NN Eval Scores

AUC: 0.63

Confusion matrix (True Class vs Predicted Class):

	Predicted B or NC	Predicted W
True B or NC	31	10
True W	36	35