

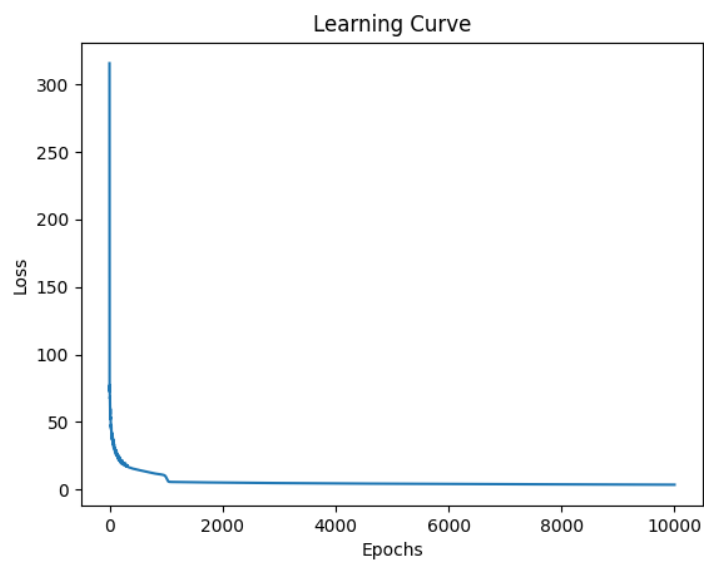
1) Regression

b、

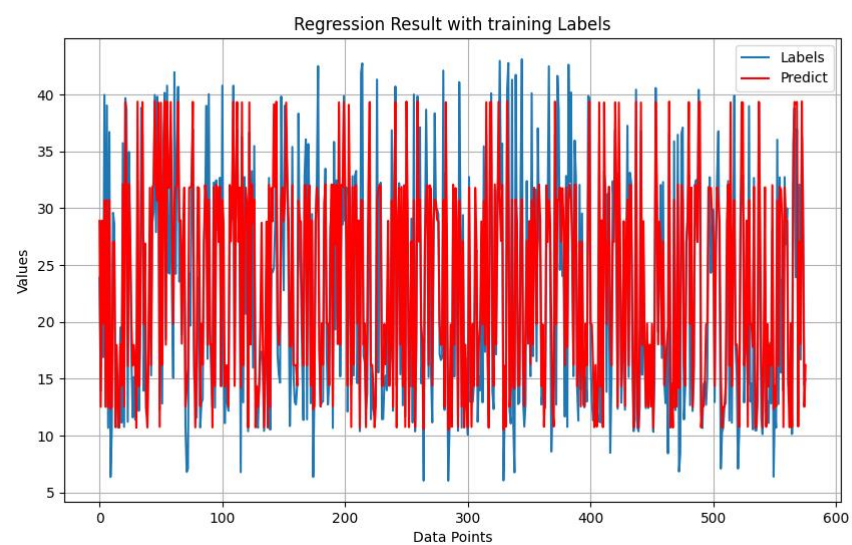
- Network information

network architecture	16-8-1
training RMS error	13.70
test RMS error	12.86

- Learning Curve:



- Training Label

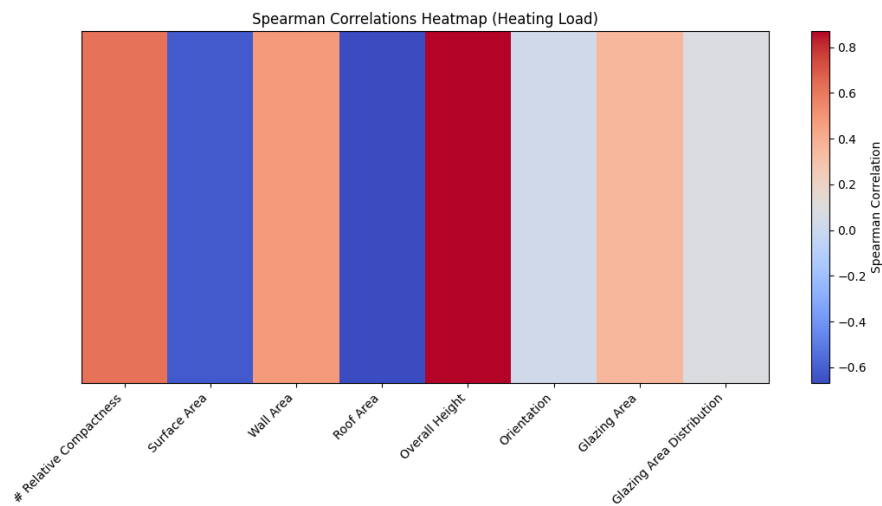


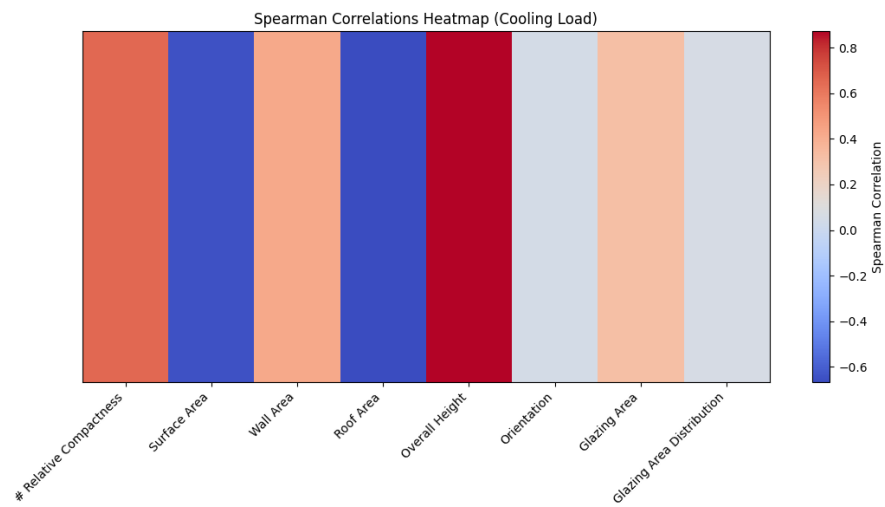
- Testing Label



Using Spearman Correlations to evaluate the influence between different features, the results indicate that 'orientation,' 'Glazing Area Distribution,' 'Surface Area,' and 'Roof Area' have less influence. After training with the remaining four features, the RMS error shows better performance than before.

Spearman Correlations (Heating Load):								
#	Relative Compactness	Surface Area	Wall Area	Roof Area	Overall Height	Orientation	Glazing Area	Glazing Area Distribution
	0.623443	-0.616496	0.481464	-0.670172	0.870893	0.027221	0.353584	0.083802





network architecture	16-8-1
Selected features	[0,2,4,6]
training RMS error	2.25
test RMS error	2.24

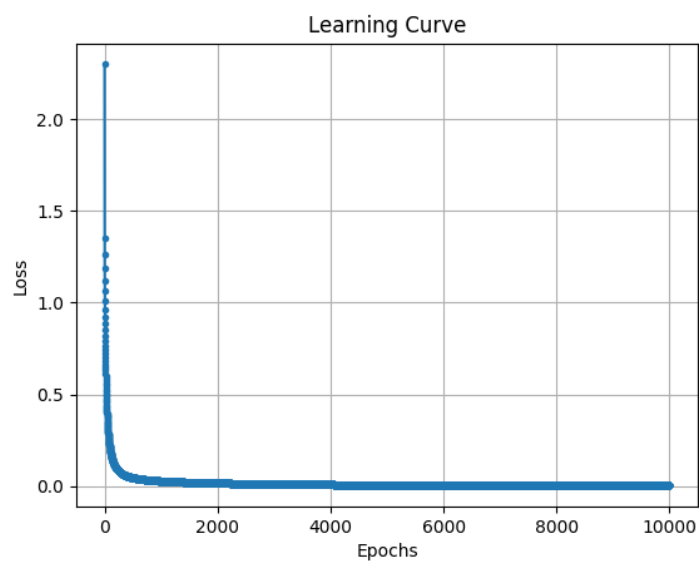
2) Classification

b、

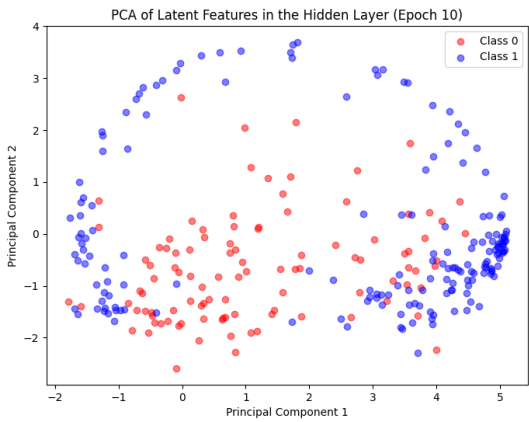
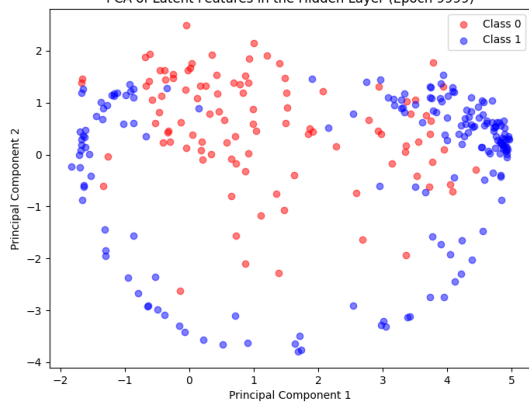
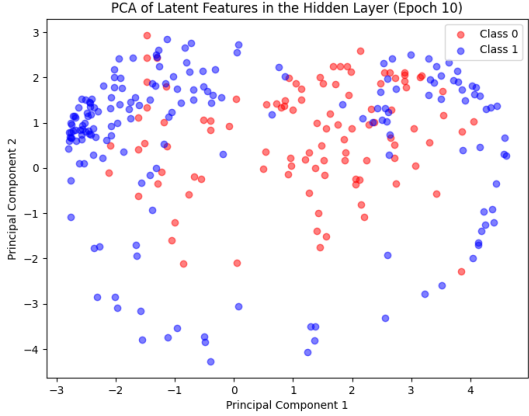
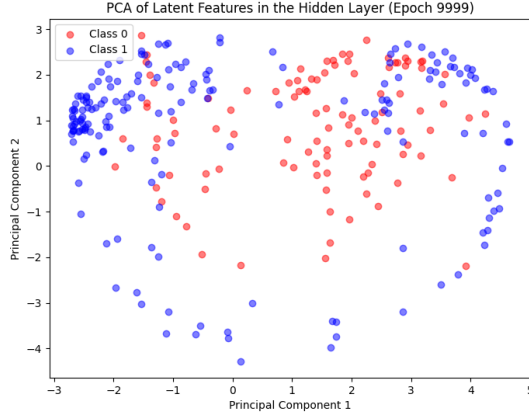
- Network information

network architecture	34-128-2
training RMS error	0
test RMS error	0.14

- Learning Curve:



C、

Hidden node	Epoch 10	Epoch 9999
100		
128		
500	