Machine learning Homework- Deep Learning

1 Activation Function

Problem 1:

The matrix operation $w^T + b$ is essentially a linear operation. When we stack linear operations over other linear operations we essentially get a linear function. It is impossible to approximate complex functions with just linear operations, therefore non-linearity is introduced to overcome this problem.

Problem 2:		
Problem 3:		
2	Numerical	Stability
Problem 4:		
Problem 5:		
Problem 6:		