

ASSIGNMENT 1

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Activation Functions

Given an input matrix of N rows and D columns, compute the softmax, ReLU, Leaky ReLU, ELU($\alpha = 2$), Tanh, prediction. Write your implementation in `q1_ActivationFunctions.py`. You may test by executing python "`q1_ActivationFunctions.py`".

- ***Note:** The provided tests are not exhaustive. Later parts of the assignment will reference this code so it is important to have a correct implementation. Your implementation should also be efficient and vectorized whenever possible (i.e., use numpy matrix operations rather than for loops). A non-vectorized implementation will not receive full credit!*