

Week 1 Assignment

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EAI6080: Advanced Analytical Utilization

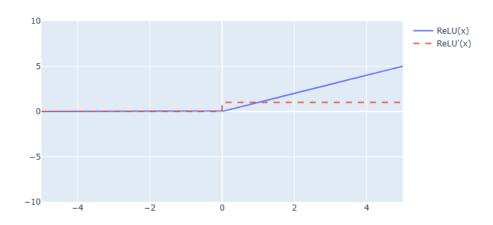
Instructor: Mimoza Dimodugno PhD

Sep 26th, 2025

Activation Functions

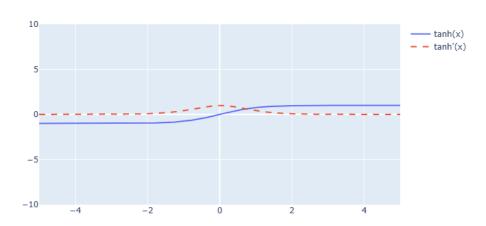
1. ReLU

ReLU and derivative

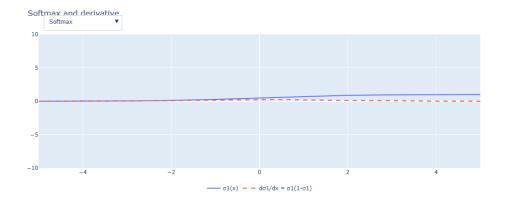


2. Tanh

Tanh and derivative

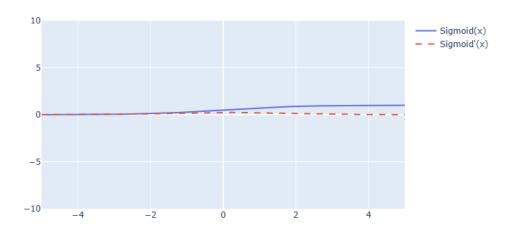


3. Softmax



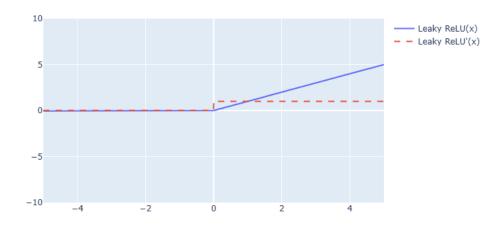
4. Sigmoid

Sigmoid and derivative



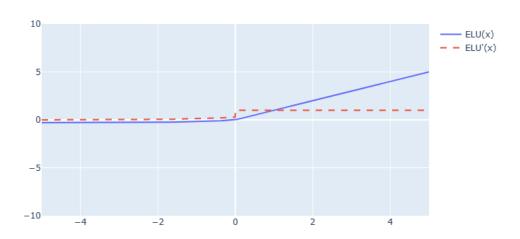
5. Leaky ReLU

Leaky ReLU and derivative



6. ELU ((plot with α =0.3)

ELU and derivative (a=0.3)



7. Sinc

Sinc and derivative

