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Class: MITE 17
Subject: DLAT

Question and Answers

a. **Why does data have to be converted to an array?**

- Arrays allow efficient storage, manipulation, and computation of numerical data, enabling the use of matrix operations and optimization techniques in machine learning and data processing.

b. **Why do we need to transpose?**

- Transposing rearranges the data structure (rows to columns or vice versa), which is often necessary to align dimensions for matrix operations or to ensure compatibility with algorithms that expect specific input shapes.

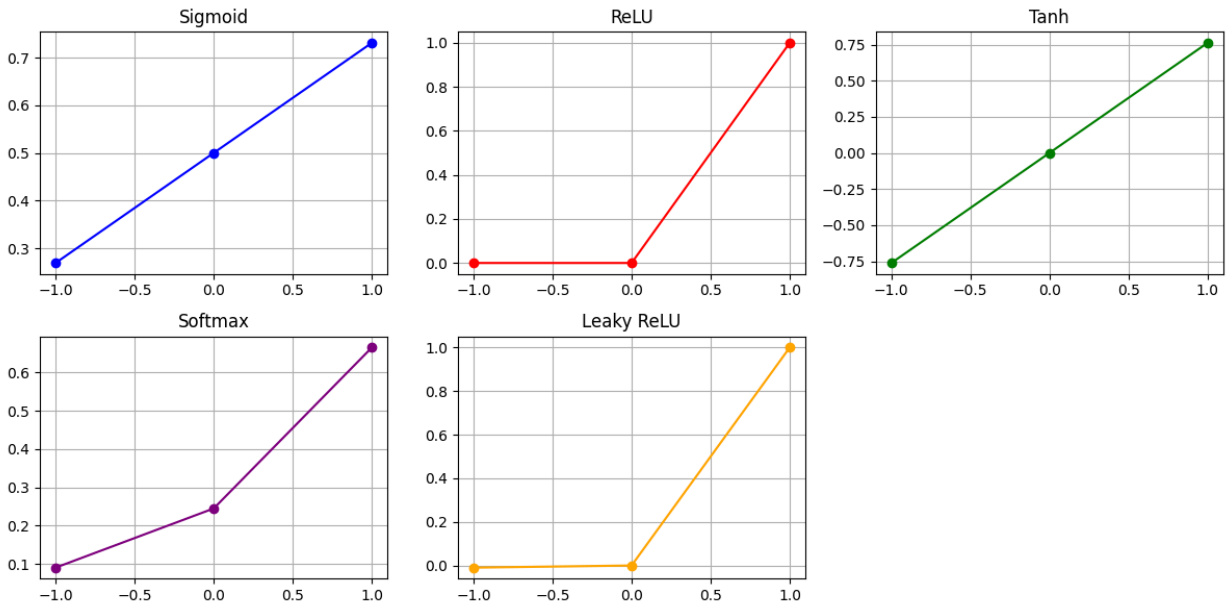
c. **What is the benefit of normalizing the input data?**

- Normalizing input data scales features to a common range, improving the convergence speed of optimization algorithms and enhancing model performance by preventing any single feature from dominating the learning process.

d. **Why does target/reference data need to be labeled?**

- Labeled target/reference data provides the ground truth for supervised learning, enabling the model to learn the correct associations between input data and the desired output.

Implementation Activation Functions



This is my source code:

https://github.com/socheatech/implementation_activation_functions