* Introduce Kolmogorov-Arnold Networks (KAN) as an efficient approach for solving first-order Ordinary Differential Equations (ODEs).
* Use a trial solution approach and gradient descent for iterative error minimization.
* Demonstrate superior performance in multiple test cases, achieving lower Mean Squared Error (MSE) and Mean Absolute Error (MAE) than other methods, like Runge-Kutta and ANN-based approaches such as RBFNNs and WNNs.
* Show potential for broader applications in computational mathematics and machine learning.
* Suggest future research on extending KAN to higher-order ODEs, Partial Differential Equations (PDEs), and optimizing performance with advanced techniques.