Instructions to run the project

Refer to the table below to run the relevant matlab script files to simulate the **Rosenblatt algorithm simulations**.

Path: /perceptron/*

Simulation scenario	Matlab file to execute
Perceptron storage success rate	base.m
Storage success rate by dimensions	bonus1.m
Embedding strengths counts by dimensions	bonus2.m
Significance of threshold (c), epochs(t_max), dimensions over storage success rate	bonus3.m
Effects of inhomogenous data over the storage success rate	bonus4.m

Refer to the table below to run the relevant matlab script files to simulate the **MinOver algorithm simulations**.

Path: /minover/*

Simulation scenario	Matlab file to execute
MinOver general scenario	base.m
MinOver vs Rosenblatt perceptron algorithm	minover_vs_rosenblatt.m
MinOver vs Rosenblatt perceptron algorithm with noise	minover_vs_rosenblatt_noisy.m
MinOver vs Rosenblatt perceptron vs kmeans algorithm	minover_rosenblatt_kmeans.m
Adaline algorithm	adaline_simulation.m

Note: To save the reviewer from long execution times, we have added a **state store feature**, where the last successful state of the workspace used to generate the output plots and results are saved as '.mat' files which is then reused to skip the executions from scratch.

To turn the feature off, kindly flip the value of the variable **USE_STATE_STORE to 0,** this will disable the use of state store and will execute the entire job.

For any queries kindly contact us at,
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