Dataset Columns

Mohamed Emary

February 1, 2024

What does each column represent

Column	Description
`x`	sorted interval from 0 to 99 [inclusive]
`y`	positive and negative from 1 to 99 [inclusive]. We start from 1 to avoid 0 [-y,+y] ex: [-3,3]
`random_state`	random seed generator from 0 to 99 [inclusive]
`sections`	random odd number from 3 to 15 [inclusive]
`random_mat_row`	get the row from `random_matrix.csv`
`x_points`	split x interval evenly into `sections`
`y_points`	split y interval evenly into `sections`
`rand_vals`	section+1 values from `random_mat_row`
`points`	zip `x_points` and `y_points`
`poly_points`	change `y_points` by adding then subtracting a random value from `rand_vals` to each element in `y_points`
`polynomial`	get the polynomial function from `poly_points` using lagrange interpolation
`rand_text`	random text samples with length `text_size`
`random_mat`	is a random matrix generated in `random_matrix.py` file