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ASSIGNMENT 1 : Web and Social Computing [IT752] By Prajwal M P 192508IT015 Purpose To analyse a given graph dataset and find its properties. Procedure Download the “General Relativity and Quantum Cosmology collaboration network” from https://snap.stanford.edu/data/ca-GrQc.html Use networkx in python to analyse the dataset Findings The following are the properties of the CA-Grq dataset Nodes : 5242 Edges : 14496 Average degree : 5.5307 Density : 0.00105 Average clustering : 0.5296 Number of connected components : 355 Diameter : 17 Graph Degree Distribution Graph plot If ER model with same parameters were created then Average Shortest path : 3.82068247881 Average Clustering Co-efficient : 0.00217847756537 If WS model with same parameters were created then Average Shortest path : 4.07752997617 Average Clustering Co-efficient : 0.0431872224837 If AB model with same parameters were created then Average Shortest path : 2.62709409514 Average Clustering Co-efficient : 0.0285012164725

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