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Synthetic Data Generation – a novel framework

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Abstract - Literature reported that synthetic data generation is emerging as an important tool in areas such as privacy, artificial learning and testing. However, the work done so far has been constrained to a few applications and for each such applications real data domain . Do,D1..Dj there is a correspondingly different method Mo.M1..Mj to convert it to its respective synthetic data counterpart So.S1..Sj . We present a broad framework for synthetic data generation for the large domain set which can be meaningfully converted to a graph form . In this paper , we outline a method for generation of synthetic graphs from real graphs while preserving certain important properties and illustrate how this can be used for a variety of applications to generate synthetic data .