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# Title of the Project (tentative): Comparative study of cluster validity indices

**Category** (Theory/Implementation/Simulation/Algorithm Development/Analysis): Implementation/Simulation/

**Stream if any**(M.Tech (CS/AI/IT)/IM.Tech): Any M.Tech.

**Prerequisites**: Knowledge on clustering

**Objectives**: Defining characteristics of different validity indices in different environments.

**Deliverables**: Prefer to publish the work in conference/ journal.

**Brief Description**:

Internal cluster validity indices are widely used approaches in a cluster evaluation. There are several kind of cluster validity indices. However, identifying the most suitable index for a possible application is an important problem of cluster validation. This is possible to compare a set of validation indices on different number of synthetic data sets. This project is aimed to conduct different experiments on evaluating clustering solutions of different cluster methods using existing cluster validity indices. The suitability of the index for a data set should be found based on the results conducted.