Experiment 10 Shashwat Shah
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Div B (2-2
Ain! Explanation on (i) spatial association rules.
(iii) spation classification
(iii) spatial clustering (DB-scan)
Theory: Spatial data encompassing both two dimensional
representation of Easter Suegale & complex 30 spaces.
involves geometric information & can be discrete or
continuous. The spatial mindry algorithm are:
(i) Spatial association Rule and Apriori Algorithm:
It defines spatial association as relationship among
variable over space. It whites the applosi algorithms.
Initally designed for transactional database. It determines
associations strength for weakness between two ax
Spatial objects.
Advantages include simplicity & ease of implementation.
Disadvantages Include Stomer speed and righ space
and time complexity.
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(ii) Spatial classification with KNN algorithm
It arrivant phicit to classes ali
It assigns object to classes object based on attribute
values considering distance direction or connectivity relations.
It implements KNN algorithm. It works on similarity
measures, categorizing new data points based on similarly
to existing data,
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Advantages include simplicity and robustness. Disadvantages include the Ngh computation Cost
(III) Spatial Clustering with DB scan Algorithm. Clustering Identifics homogeneous group of spatial object based on attribute values. The dentity based spatial clustering of application with noise (DB scan) is a density based clustering algorithm. It uses parameters min pts & E & to identify the core, boundary & noise points.
play coucal fole in spatial analysis.