



KG COLLEGE OF ARTS AND SCIENCE

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Research and Development Cell

Faculty Researcher Profile



Name	Dr. P. Ajitha	Degrees	MCA., M.Phil., Ph.d
Image for home page	https://drive.google.com/file/d/14x7gOq8HaaCDg0rToiT1-6u27_jSmlr/view?usp=sharing		
Faculty Profile (200 Words Minimum)	Completed M. Phil in 2003 with the research area of Data Mining. Qualified in SET in the year of 2016. Completed Ph. D in the year of 2019. Currently guiding two Ph.D research scholars. Published around 12 papers in International Journals with Scopus indexed, Thomson Reuters Indexed, DBLP Indexed. Research Interests are Big Data, Machine Learning and Artificial Intelligence. Passionate about developing applications in the field of AI and serve to the society.		
Keywords	Big Data, Machine Learning , Artificial Intelligence, Data Mining, Distributed Data mining, Outliers.		

RESEARCH PROJECTS / FOCUS AREAS

Title and description of research projects and Ph.D Research / focus areas	<p>Ph.D – Thesis – Title – A Novel approach to detect outliers in distributed environment for Knowledge discovery.</p> <p>Description : Outlier detection is one of the most challenging tasks. Explosive growth in the data requires new approaches to extract knowledge from it. Distributed Data Mining collects the data from various sources and in different formats. The underlying principle of classification is the data need to be classified from the large volume and variety of data. One of the core aspects of classification or prediction model is feature extraction, where attributes are classified appropriately. Combining different attributes lead to inefficient classification and prediction. There is a need to formulate an approach that can be pre-processed efficiently. Outlier is not false value or information. It is definite and accurate which combined with other attributes may provide successful or unsuccessful classifier. Detecting the outliers is the pivotal point of this proposed research work.</p>
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PUBLICATIONS

1. https://doi.org/10.1007/978-3-642-20573-6_89

Attribute reduction is a necessitated step for the disseminated environment regard to classification and prediction of the data. Rough set approach is used to handle attribute reduction through data dependencies and structural methods.

2. <https://doi.org/10.1145/1980422.1980451>

Principal Component Analysis (PCA) is bastion for distributed data analysis. An algorithm to deal with heterogeneous data and error components in distributed data mining.

3. https://www.iioab.org/articles/IIOABJ_7.9_22-25.pdf

The In- Frequent item set mining can be utilized to detect outliers which may increase the performance in terms of accuracy. Defining a certain minimum support threshold for identifying outliers in distributed data by mining minimal in-frequent patterns in the data

4. [Classification-Of-Outliers-For-Predicting-The-Heart-Disease-Using-Distributed-Data-Mining-With- Ai.pdf \(ijstr.org\)](#)

A Heuristics approach for the faster classification and accuracy in the prediction. Ensemble of AI and heuristics provides better approach for identifying the heart disease occurrences.

Google Scholar ID	https://scholar.google.com/citations?user=GcHytR0AAAAJ&hl=en
Scopus ID	AAG-9651-2021
Orcid ID	0000-0001-7893-3351

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