

PERFORMANCE ANALYSIS OF HETEROGENEOUS WEB CLUSTER USING MACHINE LEARNING ALGORITHMS

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The main objective is to solve the problem of load balancing using machine learning techniques that helps to add servers dynamically to the system. It also helps in identifying the type of server and then balances the load accordingly. Based on the server performance measures, we generate a model called prediction model which predicts the type of servers and also its availability. The predicted model is applied to the load balancing system using the machine learning algorithms, where the load is balanced by allocating the upcoming job applications to the available system resources. The classification algorithms such as support vector machines, random forests and decision trees can be used for this proposed model. The results of the above mentioned algorithms are compared based on their accuracy measures. Hence the proposed model tackles the issue of overhead in the server pools and increases the performance of the servers significantly and to have a proper backup in case of the system failures.

