

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BEI GAUM



A PROJECT REPORT ON
**“JOB DISTRIBUTION AND SCHEDULING IN A
CLOUD ENVIRONMENT”**
(Sponsored by Karnataka State Council for Science & Technology)

Submitted in partial fulfillment of the requirement for the award of the degree of

Bachelor of Engineering

In

Information Science and Engineering

By

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ABSTRACT

The scope of this project is to present a framework for Job Distribution and Scheduling of instances in a Cloud Environment. Job Distribution is required in a cloud environment because of the high resources available in the cloud network and allocation of these resources with respect to users' requirements. As such, in cloud Job Distribution has not reached a satisfactory mark. Our attempt in this project is to provide a better option for Job Distribution in the cloud.

This project covers Scheduling of jobs to be run and distributed in the cloud. We consider modifying the current scheduling code so as to shift it from the users' control to the cloud. This makes scheduling an automated process and also provides a robust and reliable environment to the cloud.

Distribution framework already being developed provides the user support on the grounds of cluster availability. This framework considers a cluster as a single node and assigns the job to it, if it satisfies the requirements for the job. This makes the entire system vulnerable with respect to the data transferred to the cluster. The modification provides the user an insight into the location of data placement. This makes the framework better on the lines of data security.