

GIT : <https://github.com/vivekbaskar1405/QualityTrainingEngine.git>  
<https://github.com/vivekbaskar1405/QualityPredictionEngine.git>

Docker Hub: [docker pull vivekbaskar92/cloudcomputing:QualityPredictionEngine](#)

### a) Steps to Application without Docker Container

1) Launch Lab, This will launch all the EC2 instance as shown below :

<input checked="" type="checkbox"/>	spark-cluster-cloud-master	i-0482d7960fef7ca34	Running	@	t2.micro	2/2 checks passed	No alarms	+	us-east-1d	ec2-54-198-197-61.co...	54.198.197.61
<input type="checkbox"/>	spark-cluster-cloud-slave	i-07fe07669860215ba	Running	@	t2.micro	2/2 checks passed	No alarms	+	us-east-1d	ec2-174-129-48-118.co...	174.129.48.118
<input type="checkbox"/>	spark-cluster-cloud-slave	i-0c7278a32fc3bdf66	Running	@	t2.micro	2/2 checks passed	No alarms	+	us-east-1d	ec2-54-160-201-73.co...	54.160.201.73
<input type="checkbox"/>	spark-cluster-cloud-slave	i-0b26efe1498aaf0ef	Running	@	t2.micro	2/2 checks passed	No alarms	+	us-east-1d	ec2-54-159-90-56.co...	54.159.90.56
<input type="checkbox"/>	spark-cluster-cloud-slave	i-085566972a01341e1	Running	@	t2.micro	2/2 checks passed	No alarms	+	us-east-1d	ec2-3-90-29-152.comp...	3.90.29.152
<input checked="" type="checkbox"/>	spark-ec2	i-0ffb44572c2bfff6b4	Running	@	t2.micro	2/2 checks passed	No alarms	+	us-east-1d	ec2-18-212-233-85.co...	18.212.233.85

2) SSH into “spark-cluster-cloud-master”

3) Run.ksh is created to run the QualityTrainingEngine to create Model and then QualityPredictionEngine to validate the model.

4) Run “./run.ksh” to run the application which will Create Training.log and Prediction.log

5) Model will be created in /home/ec2-user/model

### b) Steps to Run Prediction Application as Docker Container

1) SSH into EC2 instance named as “spark-ec2”

2) Run “sudo docker pull vivekbaskar92/cloudcomputing:QualityPredictionEngine”

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TAG	DIGEST	OS/ARCH	LAST PULL	COMPRESSED SIZE
<a href="#">QualityPredictionEngine</a> Last pushed 4 hours ago by vivekbaskar92	<a href="#">7b58b80a63e1</a>	linux/amd64	---	1.16 GB

[docker pull vivekbaskar92/cloudcomp](#)

3) Run “sudo docker images”

4) Copy the Files into /home/ec2-user/files

- 5) Rename the data file as ValidationDataset.csv
- 6) `cd /home/ec2-user/files` (Volume mount)
- 7) Run → `sudo docker run -v $PWD:/opt/bitnami/local/files 'imageId'`  
Eg : `"sudo docker run -v $PWD:/opt/bitnami/local/files 5adb3e8eaf50"`
- 8) This will run the docker container in spark-ec2 instance.