

Criterion II – Teaching-Learning and Evaluation

Metric No.	Key Indicator - 2.3 Teaching - Learning Process
<p>2.3.1 Q.M</p>	<p><i>Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences:</i> Student centric methods such as experiential learning, participative learning and problem solving methodologies are adopted by the department of IT to make the Teaching Learning process more effective along with traditional methods.</p> <p>Experiential Learning:</p> <ul style="list-style-type: none"> • Practical courses (laboratory) including virtual labs (Ex: IITB spoken tutorials etc) are made compulsory in the curriculum. • Different learning methods viz. problem-based (Raptor), case-based, co-operative (work- or community-based) are implemented wherever feasible. We provide the resource to enable learning regarding particular topic and perform the given task. • Students are encouraged to take up innovative projects and mini projects. <p>Participative learning IT department uses Participative Learning to encourage students to actively involve in learning process. Quizzes are conducted regularly. The Assignments are given to the students to nurture their problem solving abilities</p> <ul style="list-style-type: none"> • Class Room Presentations • Assignments • Participation in Inter-Institute Competitions • Participation in various committees and cells for organizing various events like seminar conferences • Planning, Participation and execution of annual social gathering -Srujan • Technical events are organized in association with professional society like CSI, ISTE, and INTAEL to exhibit technical skills of students. <p>Problem Solving Methodologies</p> <ul style="list-style-type: none"> • Giving assignments and quizzes at the end of instruction of each unit. • Product/Software Design and development. <p>File Description:</p> <ul style="list-style-type: none"> • Upload any additional information • Link for additional Information

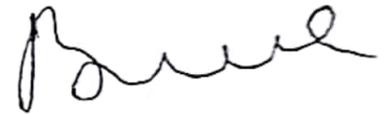
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DEPARTMENT OF INFORMATION TECHNOLOGY

List of Virtual Labs for 2020-2021

S.NO	SUBJECT CODE	SUBJECT NAME	LINK
1	IT5L1	UNIX LAB	https://cocalc.com/doc/terminal.html
2	IT6L2	DM LAB	https://colab.research.google.com/
3	19ES1351	AI TOOLS LAB	https://colab.research.google.com/



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←

inlon - dharani@gpsiddhar... | UNIX LAB - ITSL1 III B Tech IT... | Meet - pxm-rqy-jco... | Meet Attendance 08/28/2020 | Welcome to CoCalc - CoCalc

cocalc.com/projects/b9a0eb38-8a1a-49f0-9e4e-3697c5c32f88/files/2020-08-29-141025.term?anonymous-terminal&session=default

Projects Welcome to CoCalc basic

⚠ Trial Project - buy a subscription and apply upgrades or expect poor performance, random interruptions and you can't install Python packages, clone from GitHub, or download datasets. - more info..

dharoni.term Welcome to CoCalc.term 2020-08-29-141025.term

File Pause Help Terminal

```
~$ script exercise1
Script started, file is exercise1
~$ who
~$ man ls
~$ echo "mohan"
```



18501A1246 kalluri mohan karthik

00:40:16

Typing here to search

14:43 29-08-2020

00:31:10

🔊 🗨️ 🔊 || 🔁

✎ 📄 ↶ ⋮

Class imitations 'SE - 51' - 1690 x DIERCSE 7(K - MEDON'S x Meet - aht-tya-ctk x Ex-7.ipynb - Colaboratory x +

colab.research.google.com/drive/1EhTq-gi25kOPCE09piq5d6GokqRzwy

Ex-7.ipynb

File Edit View Insert Runtime Tools Help

Comment Share Settings Profile

+ Code + Text

Connect Editing

```
import numpy as np
import matplotlib.pyplot as plt
```

meet.google.com is sharing your screen Stop sharing Hide

Type here to search

2:14 PM 6/8/2021



Dharani IT Dept.

airtel 32% 16:18

Untitled6.ipynb - Colaboratory
https://colab.research.google.com

Untitled6.ipynb ☆

File Edit View Insert Runtime Tools Help All changes saved

+ Code + Text

```
import time;
start = time.time()
from sklearn.neighbors import KNeighborsClassifier
knn_prediction = KNeighborsClassifier(n_neighbors=5)
knn_prediction.fit(X_train_scaled, y_trainset) #training the model
```

NameError Traceback (most recent call last)
 <ipython-input-18-263c2c12748a> in <module>()
 3 from sklearn.neighbors import KNeighborsClassifier
 4 knn_prediction = KNeighborsClassifier(n_neighbors=5)
----> 5 knn_prediction.fit(X_train_scaled, y_trainset) #training the model

NameError: name 'X_train_scaled' is not defined

[SEARCH STACK OVERFLOW](#)

```
[17] prediction = knn_prediction.predict(X_test_scaled)
end = time.time()
```

RAM Disk Editing



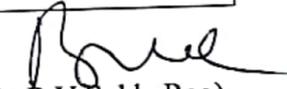
Mr. Ch. Praneeth

**PRASAD V. POTLURI SIDDHARTHA INSTITUTE OF TECHNOLOGY
KANURU.**

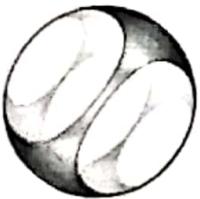
Department of Information Technology

The following staff completed the FDP on MOODLE Test for Teachers Training organized by Spoken Tutorials - IIT Bombay on 25.9.20 organized at PVPSIT, Kanuru, Vijayawada.

S.No	Name	Designation
1	Dr.A.Haritha	Associate Professor
2	Dr.D.Kavitha	Sr.Assistant Professor
3	Mrs.J.Sirisha	Assistant Professor
4	Dr.Y.Suresh	Assistant Professor
5	Dr.K.Pavan Kumar	Assistant Professor
6	Mr.M.Sundara Babu	Assistant Professor
7	Dr.S.Sai Kumar	Assistant Professor
8	Mr.P.Ravip Rakash	Assistant Professor
9	Dr. Y.Padma	Assistant Professor
10	Ms.K.Srivijaya	Assistant Professor
11	Mrs.D.Leela Dharani	Assistant Professor
12	Mrs.M.Sowjanya	Assistant Professor
13	Dr.R. Vijaya kuamr Reddy	Assistant Professor
14	Mr.I.M.V.Krishna	Assistant Professor
15	Mr.Ch.Chandra Mohan	Assistant Professor
16	Mr.Ch.Kanaka Raju	Lab Technician


(Dr B. V. SubbaRao)

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Spoken Tutorial

Certificate for Completion of Moodle Test for Teachers Training



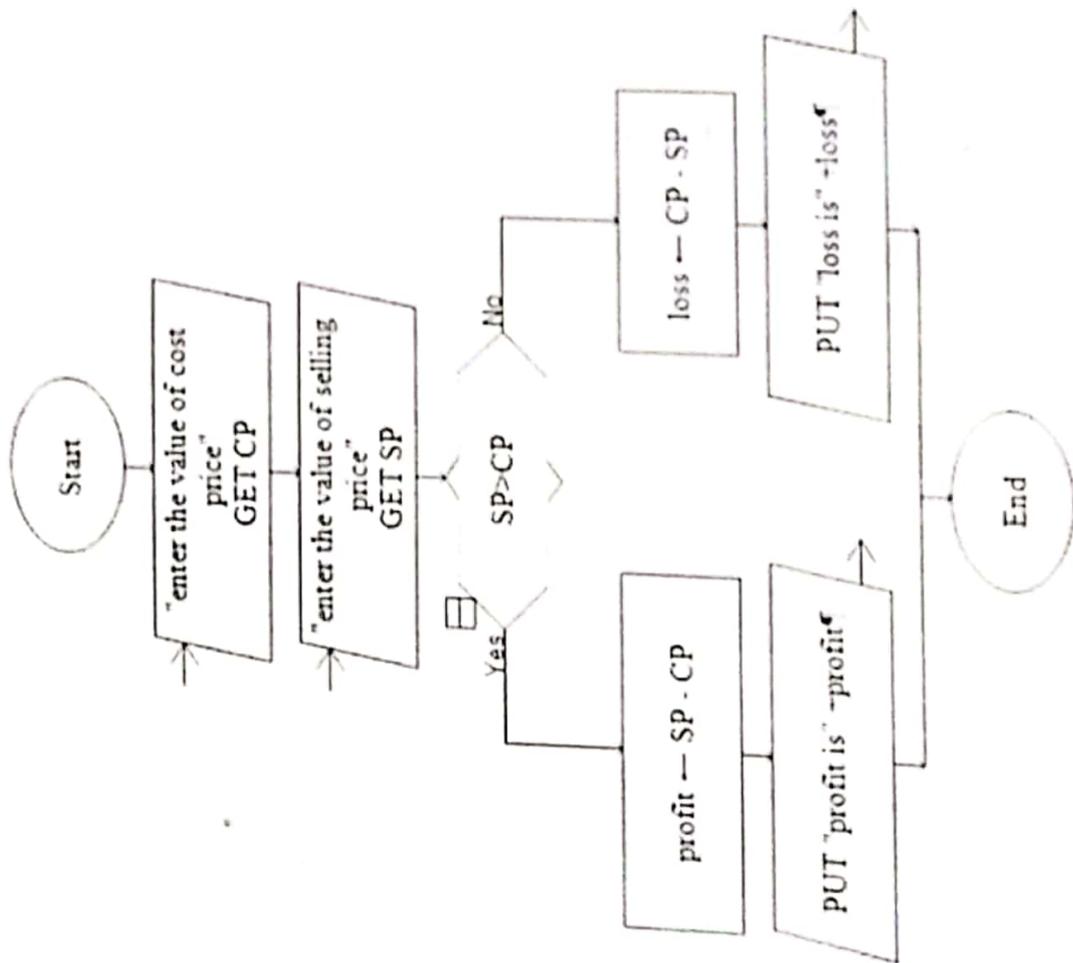
NATIONAL MISSION ON
TEACHERS AND TEACHING

This is to certify that **D LEELA DHARANI** has successfully completed **Faculty Development Programme on Moodle Test for Teachers** on **2020-09-25** organized by **Prasad V. Potluri Siddhartha Institute of Technology** with course material provided by Spoken Tutorial Project, IIT Bombay.

Adusumilli Ramana Lakshmi through google meet from **Prasad V. Potluri Siddhartha Institute of Technology** invigilated this examination.

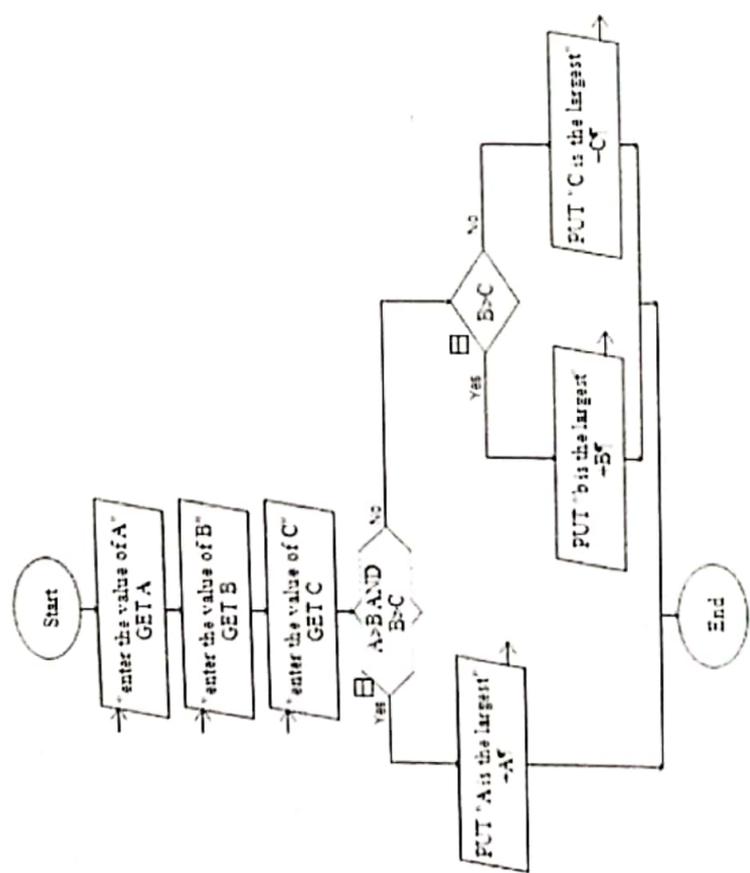
This training is offered by the Spoken Tutorial Project, IIT Bombay, funded by the National Mission on Education through ICT, MHRD, Govt. of India.

Prof. Kannan M Moudgalya
IIT Bombay



```
MasterConsole
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profit n:20
----Run complete * symbols evaluated ----
profit n:20
----Run complete * symbols evaluated ----
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Clear
Agne



Handwritten signature

MasterConsole

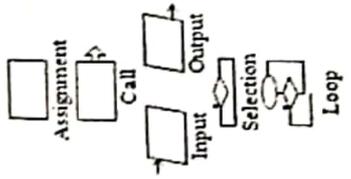
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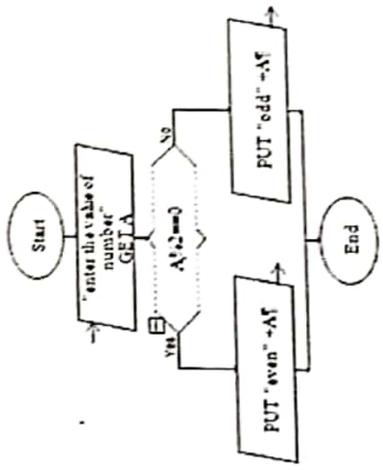
.....Run complete 3 symbols evaluated ----|

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Symbols



main



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even10
....Run complete. 5 symbols evaluated....
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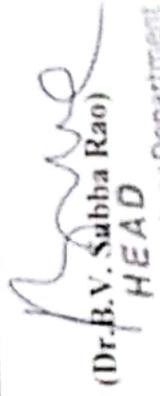
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Amel

PVP SIDDHARTHA INSTITUTE OF TECHNOLOGY, KANURU
DEPARTMENT OF INFORMATION TECHNOLOGY
INNOVATIVE PROJECTS

IV B.TECH II-SEM A. YEAR 2020-2021 (17 BATCH)

Batch No.	S.No	Reg.No	Student Name	Guide Name	Project Title
1	1	17501A1226	CH BALA SRIMANI DURGA DEVI	Dr.J.Rajendra Prasad	Smart Social Distance Tracker
	2	17501A1234	DIVYA GUDISE		
	3	17501A1216	BONDALAPATI YAGNASRI		
	4	17501A1222	CH SRI HARSHA REVANTH		
2	1	17501A1257	K LAKSHMI AMBIKA	Dr.K.Pavan Kumar	Image Dehazing using Python and Artificial Intelligence
	2	17501A1244	GOPISETTY SAIKIRAN		
	3	17501A1240	GANTI LIKHITHA ROYAL		
	4	17501A1223	CHEBROLU VISHALMITRA		
3	1	17501A1228	CHITLURI LASYA SARADA	Dr.A.Haritha	Speech Emotion Recognition
	2	17501A1218	BORRA PREEETHI		
	3	17501A1227	C HARSHA BHARATHI		
	4	17501A1217	BONELA PRABHAKAR		
4	1	17501A1283	N V NAGA VAISHNAVI	Mrs.D.Leela Dharani	Blind Assistance in Object Detection and Generating Voice Alerts
	2	17501A12B4	V SRI LEKHA		
	3	17501A12B7	VINNAKOTA KARTHIK		
	4	17501A12A9	TUMMALA NAVYA		
5	1	17501A1296	POTLURI AMULYA	Dr.J.Rajendra Prasad	COVID Diagnosis using Deep Learning
	2	17501A1272	MATURU JAMANI		
	3	17501A12B2	V ARUNA SAI		
	4	17501A12A8	THUMU LAKSHMI TULASI		


(Dr.B.V. Subba Rao)
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To review Calendar

IV B Tech(IT) S2 - 202...
S2



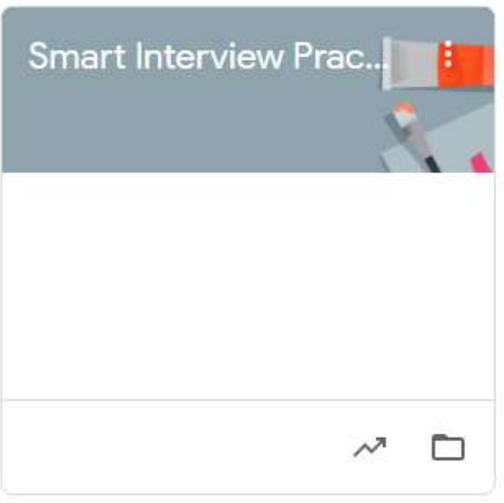
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IV B Tech(IT) S1 - 2021...
S1



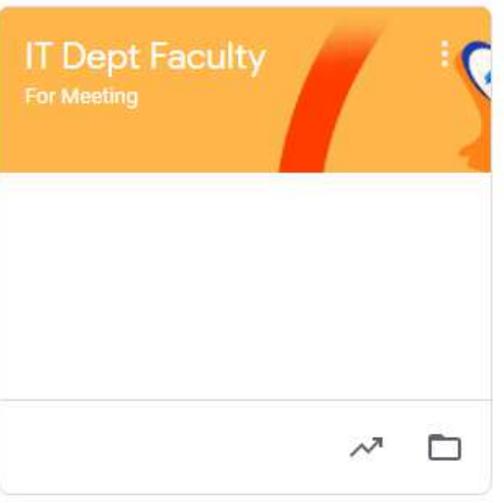
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Smart Interview Prac...



Graph icon Folder icon

IT Dept Faculty
For Meeting



Graph icon Folder icon



REC You are presenting



You're presenting to everyone

Stop presenting

hcu54p6jj5

People (53) Chat

Add people

- Dharani IT Dept (You)
- Dharani IT Dept (Your Presenta...
- 18501A1201 adi sampath ragh...
- 18501A1203 anchipaka rupa sri
- 18501A1204 ande yatheswar
- 18501A1206 appana navyasree
- 18501A1207 aradhyula akshitha
- 18501A1209 arimilli sai sunisha
- 18501A1210 arshi hafeezunnis...

Participant avatars and names:

- g 18501A1237 gogam rohith
- m 18501A1258 malempati ...
- c 18501A1218 ch...
- m 18501A1211 arvapalli ph...
- a 18501A1211 arvapalli ph...
- k 18501A1253 kothuru sai sasank

ITSL1.pdf - Personal - Microsoft Edge

1_29-08-2020(2.00 to 5.00)(part1)

Dharani IT Dept



00:40:26

Audio and video controls: mute, video off, play, 10, 30

00:31:00

Annotation tools: highlight, eraser, lasso, zoom

Student Centric Methods- Participatory Learning

Course: Data Mining and Warehousing-IT6T4-PVP14

Academic Year: 2020-21

Faculty: Dr. A.Haritha

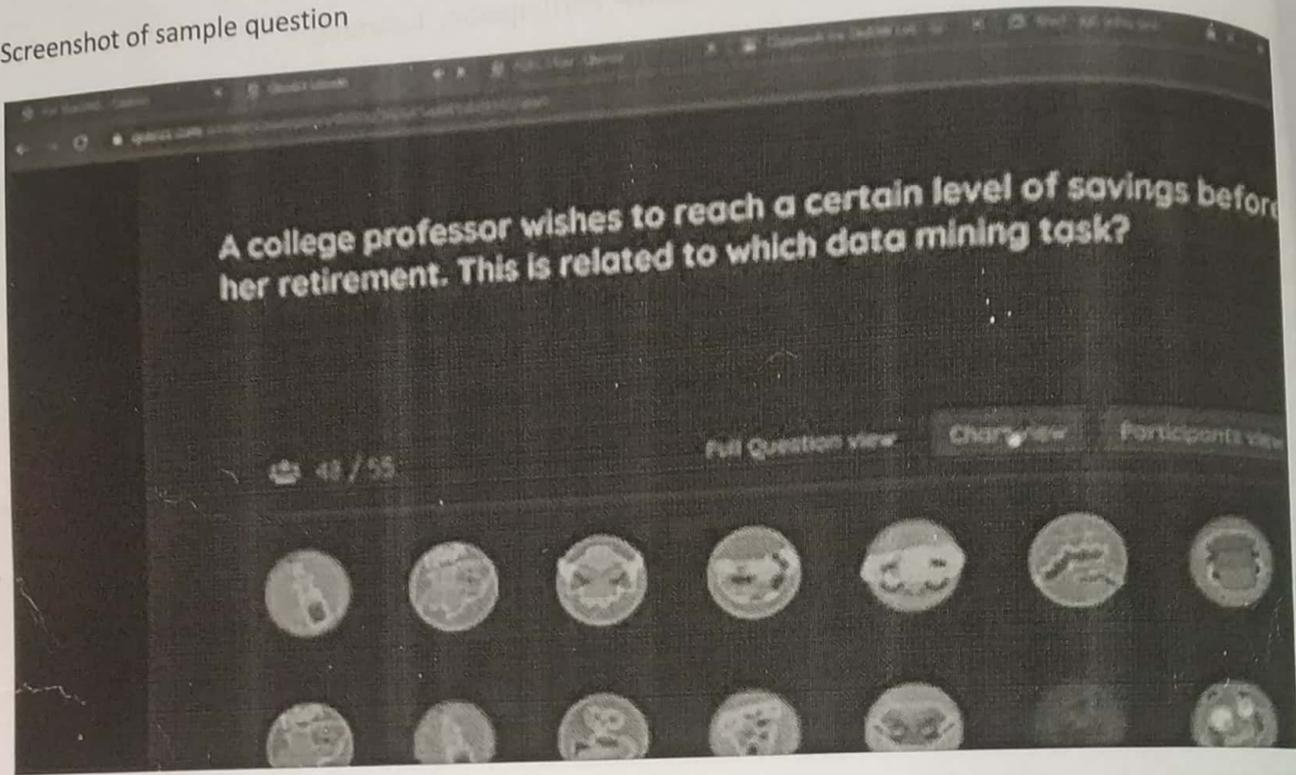
Activity Done: The students are asked to have a thorough review of the concepts that are covered in Unit-1 of Data Mining and Warehousing course. A Quiz which contains questions covering basic understanding to applying logical thinking are being played by students in which they have to choose the right answer. The students who have given the right answer gives justification for choosing the answer.

The students get involved in learning. This quiz really drives engagement by making students interact with the content. Doing this quiz, the students has to think, explore further into the concepts like fundamentals, functionalities of data mining, major issues in data mining and preprocessing concepts and ultimately become an active participant.

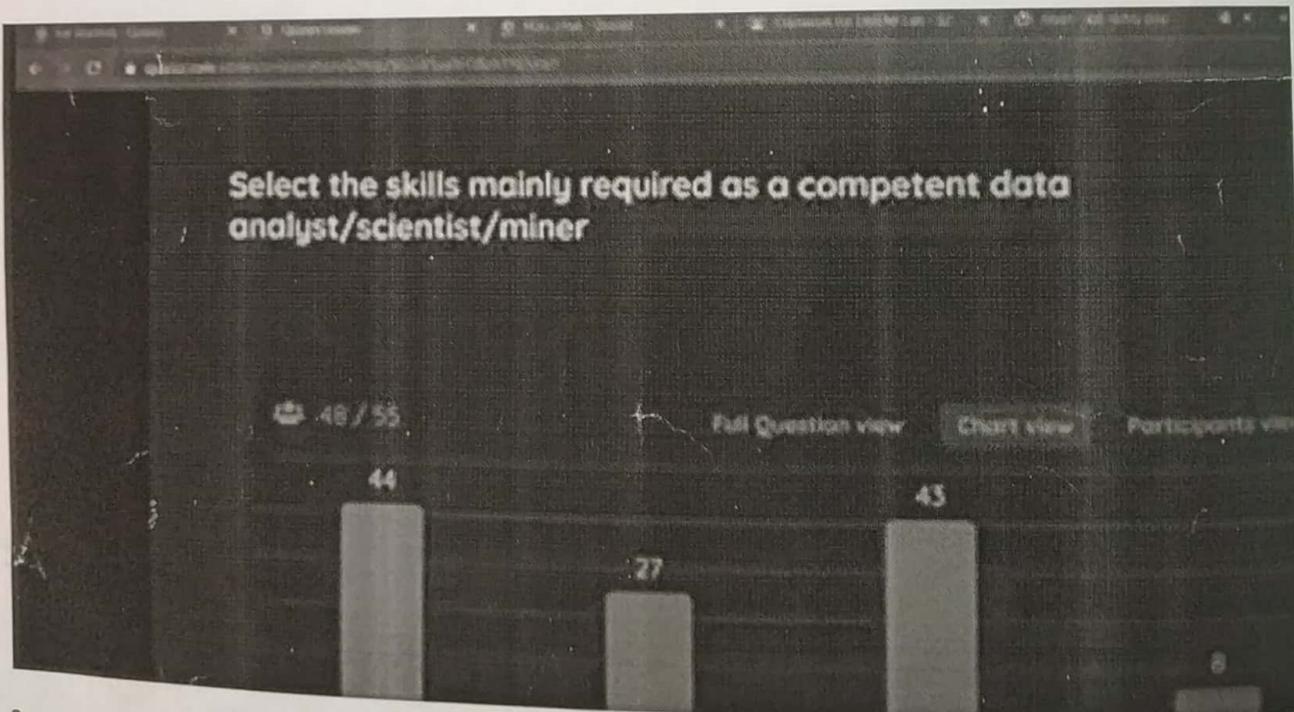
This quiz was designed to be played in online mode which included graphics and music for visual appeal where 57 students joined and participated. To imbibe a feeling of engagement the quizzes are designed to be relevant and relatable. They can be seen as a way to make learning fun. The discussions at the end of the question helps looking at things from a different angle often help them to understand the concepts better.

At the end it empowers students to share, analyze and enhance their knowledge and to plan, act, evaluate and reflect from those learning.

Screenshot of sample question



Screenshot of chart view of the question



Screenshot of student view of the question

are used in retail sales to identify patterns that are frequently purchased together.

13 / 31

Full Question view

Chart view

Participants

iqb-nchg-qa (2021-05-13 at 01:32 GMT-7)

In different cities and the number of violent crimes. Which of the following is NOT true?

- A) As the number of coffee shops increase, violent crimes appears to increase.
- B) The line of best fit (regression line) shows a positive correlation.
- C) The data has a positive correlation coefficient.
- D) An increase in coffee shops causes an increase in violent crimes.

H

27:43 / 36:00

Participants and their analysis on responses

	Aashika 1 attempt	✓ 16	✗ 5
	Harshitha 1 attempt	✓ 16	✗ 5
	Yerradla Madhuri 1 attempt	✓ 16	✗ 5
	eswar 1 attempt	✓ 17	✗ 4
	Sai Krishna	✓ 16	✗ 5

7/8/2021

DataMining-Unit1-Part-2 | Print Players - Quizizz

Quizizz

DataMining-Unit1-Part-2

Date: Thu May 13 2021 - 1:54 pm

51

Accuracy %
(correct / total)

21

Number of Questions

5

Number of

Players

Player Name	Score	Time	Correct	Total
-------------	-------	------	---------	-------

Haritha



Stream

Classwork

People

Grades

All topics

Create



QUESTION AND ANSWERS -UNIT 3,4,5

Posted Jul 1

COA UNIT4

Pos

COA UNIT 5 PART I,2

Posted Jun 23

ENVS IMP Questions

Posted Jun 21

ENVS Assignment Questions

Posted Jun 21

ENVS Material

Posted Jun 21

OS QUESTION BANK (all units) PVP19

Posted Jun 19

OS unit-5 Material

Posted Jun 14

OS unit-4 PPT

Posted Jun 14

OS Home Assignment Questions (UN...

Posted Jun 8

OS Unit-4 Material PVP19

Posted Jun 3

Button Demo Example

Posted Jun 2

Label Demo Example



Stream

Classwork

People

Grades

OS UNIT-3 Material PVP19

Posted May 17

OS Question Bank for Unit-1 & Unit-2

Posted May 12

OS UNIT-2 PPT

Posted May 7

COA U1&U2 Q&A

Posted May 6

COA UNIT2 MATERIAL

Posted May 4

COA UNIT 1 MATERIAL

Posted May 4

COA UNIT1 PPT

Posted May 4

COA UNIT2 SLIDES

Posted May 3

OS Unit-2 material PVP19

Posted Apr 20

SEP HOME ASSIGNMENT ON 3 UNIT



HOME ASSIGNMENT ON SOFTWARE ...

Due Jul 3

MIV-S1-HOME ASSIGNMENT

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MIV

Due Jun 27

Prasad V Potluri Siddhartha Institute of Technology :: Autonomous
Department of Information Technology
Academic Year: 2020-21

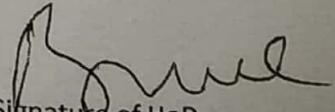
Prizes won:

1. Siddiboena Anusha, II B.Tech, won II prize in the event "Art Fiesta" @INCEPTR-2020 on organized by CSI VRSEC SC, Department of IT, VRSEC, Kanuru, Vijayawada from 26.09.2020 to 27.09.2020.
2. Gandham Sai Siddhartha, Harini Jasti, G Vishnu Vardhan, Srilekha Mandava, II B.Tech, won II prize in the event "Startup ideas" @INCEPTR organized by CSI VRSEC SC, Department of IT, VRSEC, Kanuru, Vijayawada.
3. Gandham Sai Siddhartha, K H Mallikarjuna Rao II B.Tech, won III prize in the event "IDEATHON" ADVAITHA-2020, organized by CSI VRSEC Student Chapter, VR Siddhartha Engg. College, Kanuru, Vijayawada during 28.12.2020 to 29.12.2020.
4. Appana Navya, II B.Tech, won I prize in the event "CODING CONTEST" ADVAITHA-2020, organized by CSI VRSEC Student Chapter, VR Siddhartha Engg. College, Kanuru, Vijayawada during 28.12.2020 to 29.12.2020.
5. Pagala Sri Ranga Sai, II B.Tech, won IV prize in the event "CODE CHAMP" ADVAITHA-2020, organized by CSI VRSEC Student Chapter, VR Siddhartha Engg. College, Kanuru, Vijayawada during 28.12.2020 to 29.12.2020.
6. Ande Yatheswar, III B.Tech, won I prize in the event "LOGO QUIZ" ADVAITHA-2020, organized by CSI VRSEC Student Chapter, VR Siddhartha Engg. College, Vijayawada during 28.12.2020 to 29.12.2020.
7. V Poojitha Sarada Bhavani, II B.Tech, won I prize in the event "CODE CHAMP" ADVAITHA-2020, organized by CSI VRSEC Student Chapter, VR Siddhartha Engg. College, Kanuru, Vijayawada during 28.12.2020 to 29.12.2020.
8. A. Dayana Chowdary, III B.Tech, won certification of appreciation for her effort in Detecting and Removing bug in counseling service website from Counseling Service, IIT Kanpur in 2020-21.
9. G Sai Siddhartha, K Varun, G Pavan Sai, II B.Tech, won III prize in the event "Magnate" CINQ 2021, organized by CSI Student Chapter, VR Siddhartha Engg. College, Kanuru, Vijayawada on 26.06.2021.

Publications/ Conferences:

10. R Girijaswi, V Sambasiva Rao, N Harshavardhan, T Ajay published a paper entitled "Transforming Unstructured data to Structured data using Map Reduce and HBase" in September-2020 in the International Journal of Emerging Trends in Engineering Research (IJETER).
11. T Praneetha, T Manasa, P Bhuvana(17501A1212), IV & III B.Tech, published a paper entitled "Analytical Study on Enabling of Artificial Intelligence for Security in IOT" in August-2020 in the Science, Technology and Development, Vol. 9, Issue. 8, pp. 414-420, ISSN: 0950-0707.

12. Ch. Lasya Sarada(17501A1228), B. Bhargavi(17501A1206) have presented a conference paper titled "IoT Based Calling Bell" in the event MDCWC2020 held between 22-24 october 2020 at NIT Tiruchirapalli.
13. B. Vamsi Krishna(17501A1215) published a paper entitled "Prediction of Product Rating Based on User Reviews" in January-2021 in the International Journal of Development Research(IJDR), Vol. 11, Issue. 1, pp. 43370-43372, doi: <https://doi.org/10.37118/ijdr.20908.01.2021>.
14. Vinnakota Karthik(17501A12B7), Ramiseti Sai Vardhani(17501A1298), Nalluri Prajwala(17501A1286), Nakka Swathi Priya(17501A1284), IV B.Tech, published a paper entitled "Travel Recommendation System Using Deep Learning Techniques" in April-2021 in the Juni Khyat(UGC Care Group I Listed Journal), Vol. 11, Issue. 4, pp. 1-3, ISSN: 2278-4632.
15. Lakshmi Narayana Ukoti(17501A12B0), Venkat Sai Babu Palagani(17501A1287), Shaik Ijaz Ahammad(17501A12A2), and Bindu Meghana Popuri(17501A1293), IV B.Tech, published a paper entitled "Design of a Convolution Neural Network Model to Predict COVID-19" in April-2021 in the International Journal of Advanced Research in Science, Communication and Technology (IJARSCT), Vol. 4, Issue. 3, pp. 368-370, doi: 10.48175/IJARSCT-V4-I3-015, ISSN: 2581-9429.
16. N. V. N. Vaishnavi(17501A1283), Sai Ravi Teja Nalam(17501A1285), IV B.Tech, published a paper entitled "A Website for Students to Choose their Graduate College on their Choice" in May-2021 in the International Journal for Modern Trends in Science and Technology (IJMTST), Vol. 7, Issue. 5, pp. 187-190, doi: <https://doi.org/10.46501/IJMTST0705032>
17. M. Sanjana(17501A1276), P.L.V.Sai Sudheer(17501A1297), M. Lakshmi Vaishnavi(17501A1268), S. Jahnvi(17501A12A4), IV B.Tech, published a paper entitled "Comparative Analysis of Heart Diseases Prediction using Machine Learning Algorithms" in June-2021 in the International Journal for Modern Trends in Science and Technology (IJMTST), Vol. 7, Issue. 6, pp. 218-224, doi: <https://doi.org/10.46501/IJMTST07060328>
18. A.Hanika(17501A1203), B.Preethi(17501A1218), Ch.Harsha Bharathi(17501A1227), Chekka Venkata Naga Sai(17501A1224), IV B.Tech, published a paper entitled "Encrypted Donor Search Engine System using automated learning classifiers" in June-2021 in the International Journal of Computer Science and Mechatronics (IJCSM), Vol. 7, Issue. 2, pp. 1-3, ISSN: 2455-1910.
19. B.Vani(17501A1207), B.Yagnasri(17501A1216) and P.Bhuvana(17501A1212), IV B.Tech, published a paper entitled "Application Development of Employee Management System" in June-2021 in the International Journal for Modern Trends in Science and Technology (IJMTST), Vol. 7, Issue. 6, pp. 368-370, doi: <https://doi.org/10.46501/IJMTST0706060>, ISSN: 2455-3778.


Signature of HoD

(Dr. B. V. Subba Rao)

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KANURU, VIJAYAWADA-520 007.



VELAGAPUDI RAMAKRISHNA SIDDHARTHA ENGINEERING COLLEGE



CERTIFICATE OF APPRECIATION

THIS IS TO CERTIFY THAT

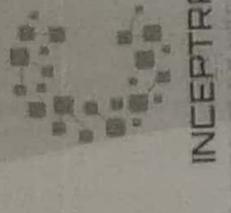
SRILEKHA MANDAVA

OF

Prasad v potluri Siddhartha institute of technology
had secured **2nd** in **Startup Ideas** at "**INCEPTRA 2020**"
held on 26th & 27th Sep 2020 Organized by **CSI VRSEC SC**
Department of Information Technology
Velagapudi Ramakrishna Siddhartha Engineering College.

DR. M SUNEETHA
Principal, VRSEC

DR. A V RATNA PRASAD
Principal, VRSEC.



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**VELAGAPUDI RAMAKRISHNA
SIDDHARTHA ENGINEERING COLLEGE**

CERTIFICATE OF APPRECIATION

THIS IS TO CERTIFY THAT

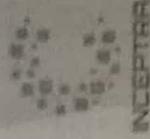
Gandham Sai Siddhartha

OF

Prasad v potluri Siddhartha institute of technology
had secured **2nd** in **Startup Ideas at "INCEPTRA 2020"**
held on 26th & 27th Sep 2020 Organized by **CSI VRSEC SC**
Department of Information Technology
Velagapudi Ramakrishna Siddhartha Engineering College.

DR. M SUNEETHA
Principal, VRSEC.

DR. A V RATNA PRASAD
Principal, VRSEC.



INFORMATION

Transforming Unstructured data to Structured data using Map Reduce and HBase

Dr. R. Vijaya Kumar Reddy¹, G. Venugopal², Girijaswi Rajanala³, V. Sambasivarao⁴, N. Harshavardhan⁵, T. Ajay⁶

¹Assistant Professor, Department of Information Technology, Prasad V Polturi Siddhartha Institute of Technology, Vijayawada., A.P, India. vijayakumarr285@gmail.com,

²Assistant Professor, Department of Information Technology, Prasad V Polturi Siddhartha Institute of Technology, Vijayawada., A.P, India. venugopal.gaddam@gmail.com.

³Assistant Systems Engineer, TCS, Kolkata, West Bengal, India. girijaswi.rajanala1210@gmail.com

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ABSTRACT

Unstructured data is defined as a pre-defined data model or unorganized in a pre-defined mode. It is classically text-bulk, but it can hold data like dates, numbers, and facts. This outcome in irregularity and ambiguity which make it hard to comprehend with long-established programs when compared to stored data in particular location in data bases. This type of data can be altered into structured format using Hadoop Distributed File System. By using Big Data Analytics technique, a Hadoop ecosystem tools like Map Reduce and HBase, data that is unstructured can be formatted into structured data and then results display in HBase.

Key words : Unstructured data, Hadoop Distributed File System, structured data.

1. INTRODUCTION

Big Data Analytics refers to the methodologies that can be used for convert uncooked data into significant data, which helps in commerce analysis and forms a decision support arrangement for the executive in the society. Volume, Velocity, Variety includes dissimilar kinds of data present like structured semi-structured and un-structured data in big data. Hadoop is the uncomplicated java programming skill that provides framework for giving out distributed data sets across distributed computer groups called Hadoop distributed file system. HDFS is a extremely scalable and distributed file system. It fragmented the file into blocks, which is assigned to the dissimilar nodes in the group of Hadoop framework where the contribution of initial data is processed with the help of

Map Reduce programming and then outcome is written again in HDFS as shown in Figure 1.

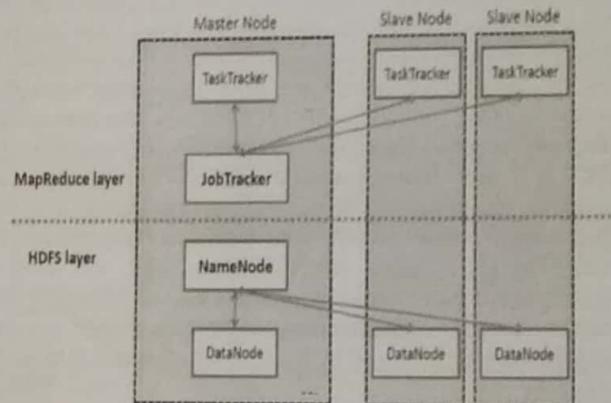


Figure 1: Architecture of Hadoop

It is observed that using the earlier versions and giving out the prearranged data mark-up is the world communal verbal communication format which gives search engines recognize and facilitate users the best outcome who are thorough for connected data. The structured data that is taken back from the unstructured data in past methodologies are giving solutions to more complicated issues with the help of java and RDBMS. By using Hadoop ecosystem tools like Map Reduce and HBase we can convert Unstructured Data to Structured Data and the search of any type of information in less time and to understand meaning in an easily when data in this format and reuse the already converted data for the future purpose.

The paper follows background work in section two. The third section deal with methodology and section four results and analysis. Finally conclusion end of the paper.

2. BACKGROUND WORK

Mapper is a database management system. It is a software tool for help end-users contribute to computer power in a system. Users are able to build up their own applications and process them instantaneously. A mapper function usually divides the input data-sets into independent chunks that are processed by the map jobs in an entirely matching method. The input data sorts out the framework, based on the matching of input data. Typically, the data is stored as an input in a file-system. The setting up jobs framework examines, monitor them and re-executes the aborted jobs. In Hadoop, it is observed that the process of transferring intermediate output from mappers to the reducer is named as shuffling. The keys that are produced by the mapper are mechanically sorted out by MapReduce Framework. It means that before the start of reducer, all intermediate key-value pairs in MapReduce which are produced by mapper get sorted out by key and not by value. In this process, values acknowledged to each reducer are not sorted out. Sorting in Hadoop helps reduce to easily differentiate whenever a new reduced task starts and saves time for the reducer. Reducer starts an innovative reduce method when the next key in the sorted input data is unlike than the past. Every reduce job takes key-value pairs as input that generate key-value pair as outcome.

In the event of generating the outcome, reducer takes the outcome of the Mapper process of each step. The outcome of the reducer is considered the final outcome, that is piled up in HDFS. Hadoop Reducer receives a set of a middle key-value pair that are generated by the Mapper considering it as the input and moves a reducer function on every one of them. In order to get a broad range of processing, the data is aggregated, filtered and combined in a number of ways. First, the intermediate values are processed by reducer for particular key that can be produced by the map function and then gives final the output.

3. METHODOLOGY

Apache Hadoop eco system is a framework that is used for reduce big data organization issues. The Hadoop core affords laying up of un-structured data using the HDFS along with Map Reduce programming replica to evaluate data in parallel method, and then it is stored in the distributed system. This system helps in retrieval of necessary data in a short span of time and more accurate outcomes are obtained. Generally, the typical start-up and shut-down draft requires protected shell to be arranged between nodes and cluster. It comprises OS level Group of data like Map-Reduce Engine and Hadoop Distributed File System(HDFS). HDFS is a file System which is written in Java Hadoop Framework. The progress of Hadoop has a major development in the field of big data. Hadoop holds up the structure of Big Data since it is an equal programming stage [1] [2].

A MapReduce work for the most part separates the data information into self-governing chunks that are processed by

the map jobs in a totally parallel way. The structure sifts through the result of the guides, that help the contribution to the decrease occupations. Traditionally both info and yield of the undertaking are preserved in a document framework. The system looks at plan of occupations, screen them and re-executes the bombed positions. It is very common that the process nodes and the capacity nodes are the equivalent. The Map Reduce system and the HDFS are running on the comparable arrangement of nodes. This arrangement concedes the structure to plan occupations well on the nodes where information is now present, resultant in very far above the ground aggregate bandwidth across the group. The Map Reduce structure includes a solitary master Job Tracker and one slave Task Tracker for every group nodes. The master is the in-control to plan the positions part on the slaves, screen them and re-execute the useless errands. The slaves at that point complete the positions as focussed by the master. The joiner sticks to the joining of the moderate outcomes from the guide occupations and reducer subtask that is utilized for completing total. The final product is put away in HDFS soon after the map and reduce jobs [3].

As it is a big data processing, it facilitates people to run applications on systems that involve thousands of nodes having terabytes of data. Hadoop makes it feasible due to its distributed File System. It also assists people to carry on operation even though there is a failure of node. But, it is observed that a single point failure does not influence the failure of calamitous framework. Hadoop is an open-source Map Reduce execution that is intended for enormous Clusters. It comprises a single master node namely, the JobTracker and many slave nodes namely, the TaskTrackers as shown in Figure 2. As characterized in the article, JobTracker is responsible for parallelizing the activity execution across hubs and accordingly guaranteeing adaptation to internal failure [4][5].

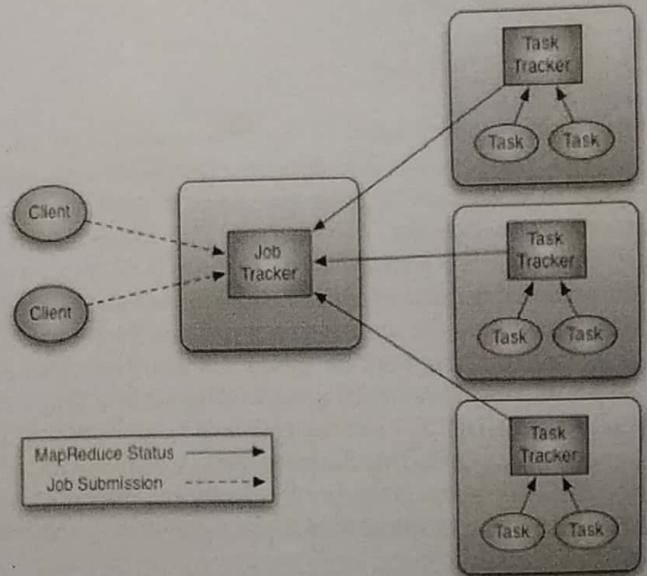


Figure 2: Procedure of Map reduce

4. RESULTS AND ANALYSIS

In this section deal with results and analysis of proposed system. The following Steps involved generating the results. Initially VMware player installation and running vmware player. In next step Cloudera work station with creating a new java project in eclipse[6][7]. After creating a project in external location to setting jar file libraries and Setting jar packages for that class and writing source code. And then creating jar file along with exporting the jar file. Open the input file in terminal and executing the Map Reduce file operations, output generated after Mapreduce is executed[8][9][10]. That content entering into HBase shell and Listing tables in HBase, finally showing table contents in HBase which are shown from Figure 3 to Figure 14.

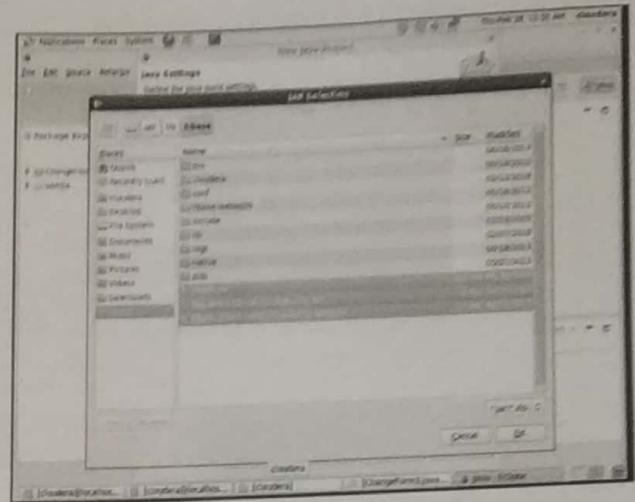


Figure 5: Setting jar files from hbase

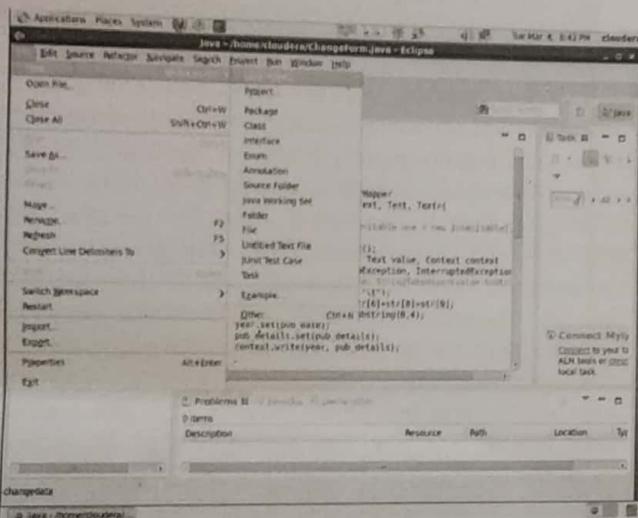


Figure 3: Creating a new java project in eclipse

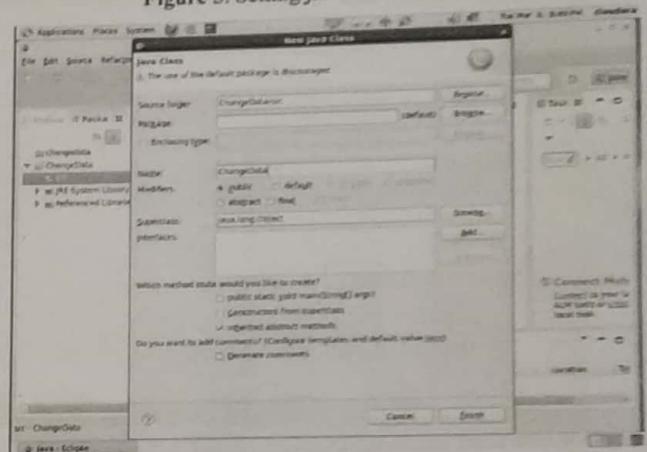


Figure 6: Creating a new class

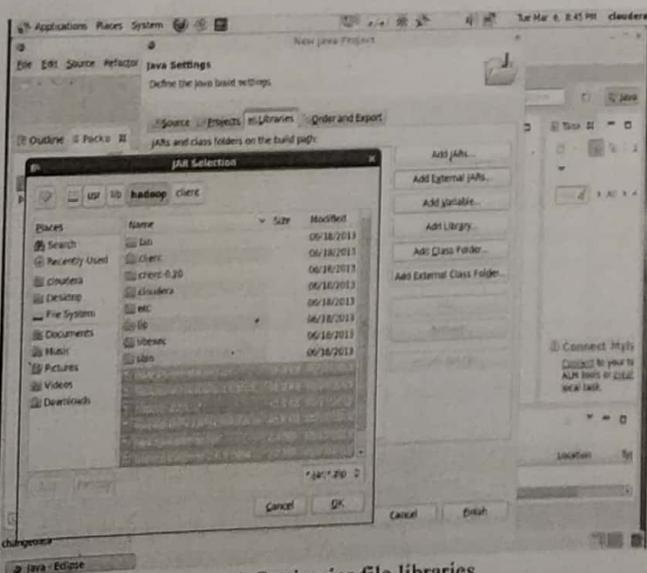


Figure 4: Setting jar file libraries

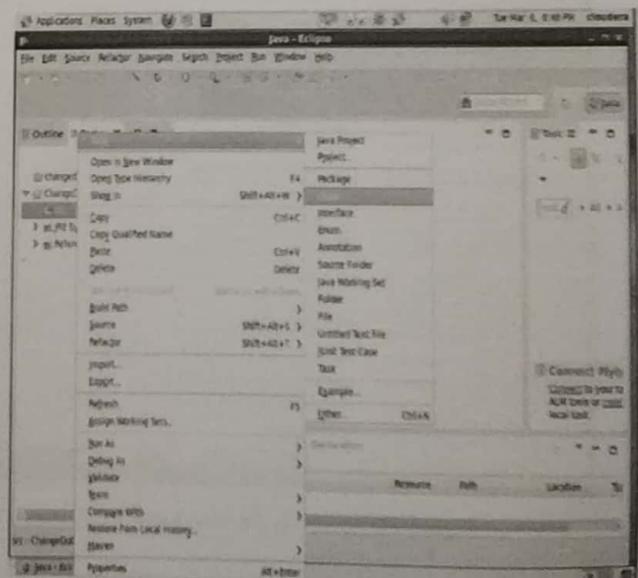


Figure 7: writing source code

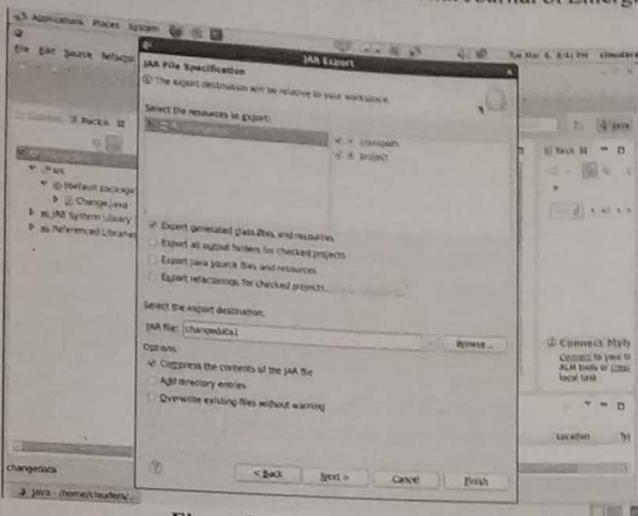


Figure 8: Exporting the jar file.

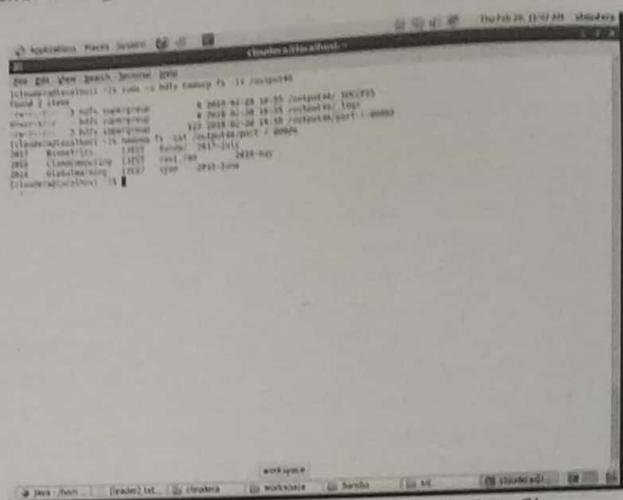


Figure 11: Output after executing Map Reduce file

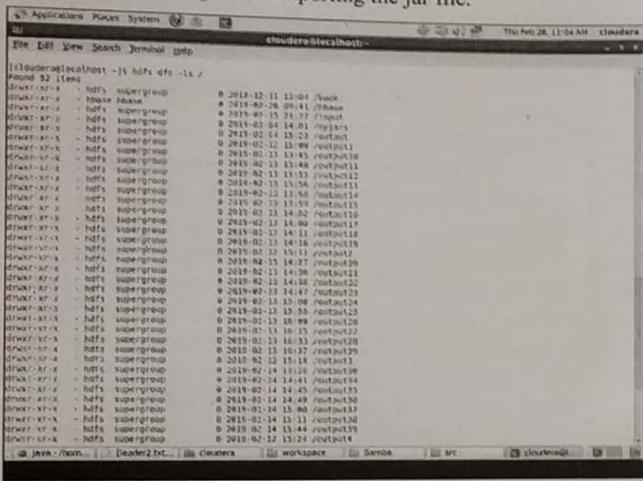


Figure 9: Opening the input file in terminal.



Figure 12: Entering into HBase shell

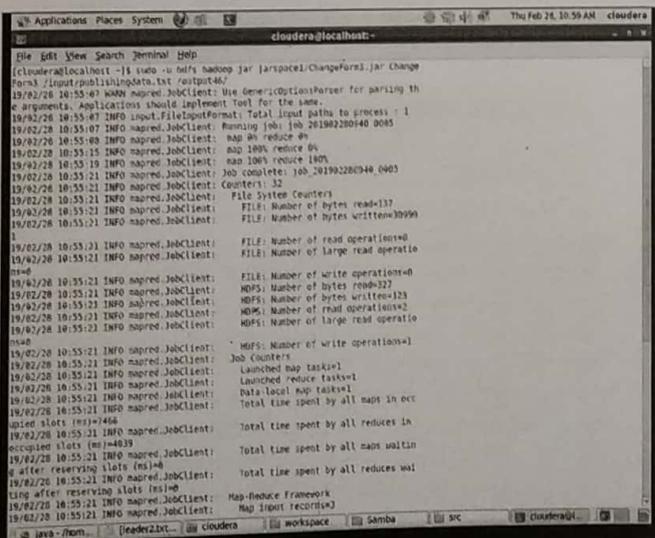


Figure 10: Executing the Map Reduce file

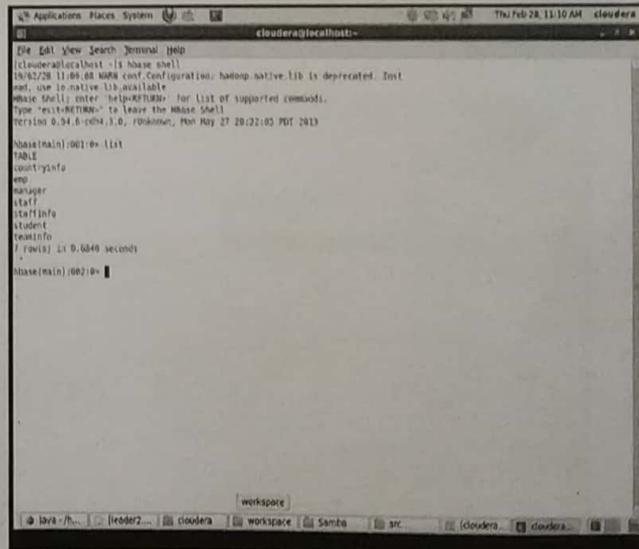


Figure 13: Listing tables in HBase

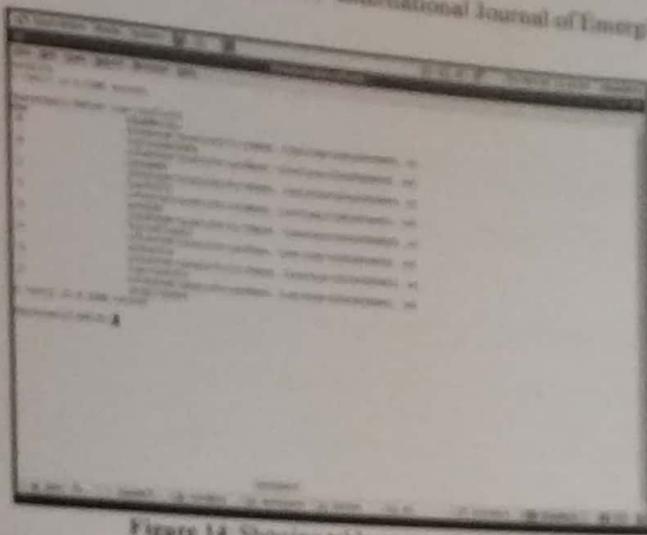


Figure 14. Showing table content in HBase

5. K. Jose Tracy et al. **A Bigdata processing with Hadoop Map Reduce in Cloud Systems** International Journal of Emerging Trends in Engineering Research, Volume 8, No. 3, pp.752-758, March 2020.
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<https://www.youtube.com/watch?v=ubNQ812My5Hs>
7. www.go-gliffy.com
8. Execution of a mapreduce program:
<https://www.scoopid.com>
9. Hadoop mapreduce tutorial:
<https://www.youtube.com/watch?v=5qvAaB3vKEU>
10. https://www.tutorialspoint.com/hbase/hbase_architecture.html

5. CONCLUSION

Hadoop is one of the most excellent platforms used for store and retrieve the information in huge volume at superior rate. The Hive tool can be used to progression and store up the correct information in a huge database, compared to other data mining and cloud procedures. It cans progression information that has a looser structure than would be possible in a relational database. This enables us to query and examine customary structured data. After this Unstructured data will be format into structured data. Hadoop has freshly adopted YARN which opens up the potential to go beyond map/reduce without altering everything. Note that some of the novel options do have migration path and also we still retain the access to all that big data we have in Hadoop as the extended use again of a number of the ecosystem.

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4. Zaharia M. et al. **Improving Map reduce performance in heterogeneous environments**. Proceedings of the 8th USENIX conference on Operating systems design and implementation (OSDI), San Diego, California, USA, pp.29-42, 2008.

PROFESSIONAL SOCIETIES ACTIVITIES (A.Y 2020-21)

- CSI
- ISTE
- INTAEL

PRASAD V POTLURI SIDDHARTHA INSTITUTE OF TECHNOLOGY (AUTONOMOUS)

DEPARTMENT OF INFORMATION TECHNOLOGY

PROFESSIONAL SOCIETIES EVENTS (A.Y 2020-21)

Dt: 18-08-2021

The following are the events conducted in association with ISTE student chapter, CSI and INTAEL professional societies during academic year 2020-2021.

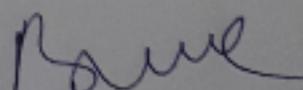
➤ List of Events Conducted in A.Y 2020-21:

S. NO	ACADEMIC YEAR	NAME OF PROFESSIONAL SOCIETIES/ CHAPTERS	ORGANIZED EVENT AND TITLE	ORGANIZED DATE
1	2020-21	CSI	Organized A Two Day Workshop on "Cyber Security" for III B.Tech students.	03-02-2021 and 04-02-2021
2			Organized A webinar on "Data Analytics and its Applications" for III B.Tech students.	31-07-2020
3		ISTE	Department of IT conducted one Day Workshop on "Design Your Career A Kickoff Session" for IIIrd B.Tech students.	19-06-2021
4			Conducted Different Coding Events(Engineers Day) like ➤ "Solve and Earn Perks on Programming Basics on C" for Second Year Students 48 hours Duration Platform Hackerrank ➤ "Problem Solving (Basic) Skills Certification Test HACKER RANK" For Third Years Through online mode due to COVID.	15-09-2020

5			Organized a online "Coding Contest" for 2,3,4 th B.Tech students(4-25,3-83,2-80 students)	04.10.2020
6		INTAEL	Conducted a Technology Awareness Talk (Webinar) on "Ethical hacking and Cyber Security" for II nd B.Tech students.	14.06.2021

➤ **Number, Quality of Engineering Events Organized at Institute Level /State/National /International Level:**

S. NO	ACADEMIC YEAR	ENGINEERING EVENT	DATE
1	2020-21	ISTE Conducted Institutional Level AICTE Sponsored Online STTP on "Data Science for Social Good" by the resource persons Dr. Nalini Polavarapu, Head of Data Science, Head of Data Science, CustomerCentricity, Bayer,Chicago, Dr. Konduri Aditya, Assistant Professor, Department of Computational and DataSciences, IISC, Bangalore in association with ISTE student chapter.	24-08-2020 To 29-08-2020
2		CSI: Conducted Institutional Level webinar on "HOW TO CRACK TCSCODEVITA" by the resource person Mr. M.MALLIKARJUNA, Freelance Technical Trainer in association with CSI professional society.	04-08-2020


 Dr. B. V. Subba Rao

(HOD IT)
HEAD
 Information Technology Department
 PRASAD V. POTLURI
 SIDDHARTHA INSTITUTE OF TECHNOLOGY
 KANURU, VIJAYAWADA-520 007.

CSI CHAPTER



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AUTONOMOUS, ISO 9001:2015 Certified Institute,
Permanently Affiliated to JNTUK, KAKINADA

All UG Programmes are accredited by NBA under Tier-1

A Webinar on

DATA ANALYTICS AND ITS APPLICATIONS

Date:-31-07-2020

Time:-1.30pm -2.30pm

Organised by

DEPARTMENT OF INFORMATION TECHNOLOGY

in Association with

PVPSIT CSI Student Chapter



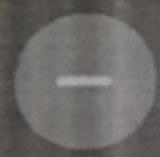
RESOURCE PERSON

KRISHNA KOMMLURI

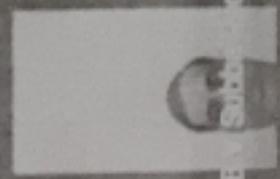
Business intelligence developer

Mediamint, Hyd.

Prasad
Prasad V. Potluri
Information Technology Department
PRASAD V. POTLURI
SIDDHARTHA INSTITUTE OF TECHNOLOGY



IT1265 kuchipudi



Dr. B. V. Subbaramo



K. Namraisha



IT1229 Ganesh



Present now



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ISTE
STUDENT CHAPTER

PVP Siddhartha Institute of Technology
Department of Information Technology
ISTE STUDENT CHAPTER
(INDIAN SOCIETY FOR TECHNICAL EDUCATION)

Dt: 11-09-2020

Department of IT is celebrating Engineers' day on 15-09-2020 to celebrate the birthday of Sir M. Visweswaraiyah. On this occasion ISTE student's chapter of dept. of IT is organizing various Coding events for II, III and IV B.Tech students. Events Planned to conduct through ONLINE mode. The following staff members are appointed as faculty coordinators.

S.NO	Event Name	Name of Faculty Coordinators	Target Students	Time and Date
1	Solve and Earn Perks on Programming Basics	Ms.K.Swarupa Rani Mr.G.Venugopal	II Year Students	12-09-20 to 13-09-20 (48 Hours)
2	Problem Solving (Basic) Skills Certification Test	Ms.K.Srivijaya Ms.D.Leela Dharani	III Year Students	12-09-20 (9.00AM to 1.30 PM)
3	Problem Solving (Intermediate) Skills Certification Test	Mr.P.Raviprakash Dr.G.Lakshmi	IV Year Students	12-09-20 (9.00 AM to 1.30 PM)

Note: Due to placement drive IV year students could not able to attend the above event.
 > First Prize 600 and Second Prize 400 for Each Event Separately.

Professional Society Activities coordinator

Dr.J.Rajendra Prasad

*To the concern Faculty for info & use
 I form to all II, III, IV
 students through whatsapp group.*

Dr. B.V. Subba Rao

[Signature]
 (IT-HOD) 11/9/2020
 HEAD

Information Technology Department
 PRASAD V. POTLURI
 SIDDHARTHA INSTITUTE OF TECHNOLOGY
 KANURU, VIJAYAWADA-520017

[Signature]
 11/9/2020

PRASAD V POTLURI SIDDHARTHA INSTITUTE OF TECHNOLOGY

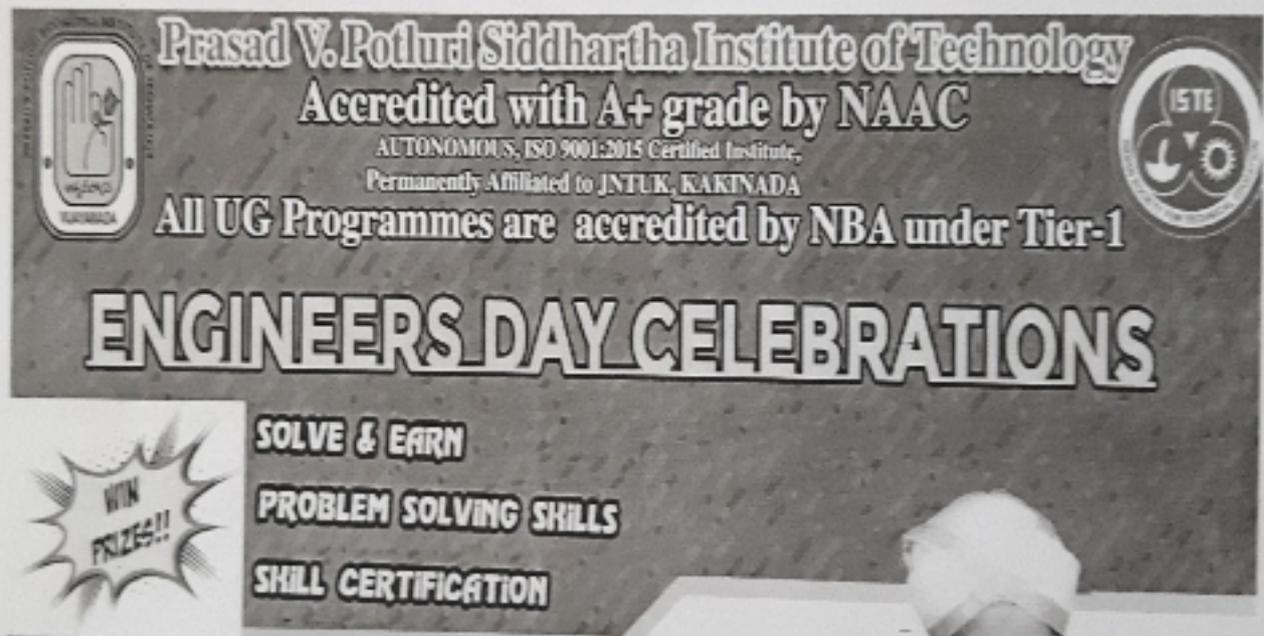
DEPARTMENT OF INFORMATION TECHNOLOGY

ISTE STUDENT CHAPTER

ENGINEERS DAY REPORT

15-09-2020

PVP Siddhartha Institute of Technology celebrated Engineers Day on 15th September 2020. On this eve, Different Coding Events are conducted through online mode due to COVID. These events provided a platform to Engineering, Scientific and Innovative creations to describe advancements in Technology. Conducting such an events create an opportunity for students to exhibit their technical skills and knowledge. These events were organized under the guidance of Dr. K.Sivaji Babu, Principal, Head of the IT Department, Dr G.Vijay Kumar, Chairman ISTE Chapter, Dr. M.V Ramesh, Secretary, ISTE Chapter.



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ENGINEERS DAY CELEBRATIONS

WIN PRIZES!!

SOLVE & EARN
PROBLEM SOLVING SKILLS
SKILL CERTIFICATION

Shree Ratha
Sir HOKSHAGUNDAM VISVESVARAYA
1860-1962

Organised by

DEPARTMENT OF INFORMATION TECHNOLOGY

> Solve and Earn Perks on Programming Basics on C programming Basics for Second Year Students 48 hours Duration Platform Hackerrank

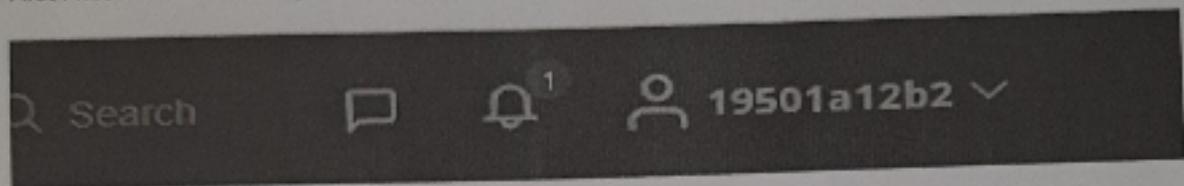
Event Organisers: Ms.K.Swarupa Rani Mr.G.Venugopal

First Prize: CASH PRIZE Rs600

Second Prize:CASH PRIZE Rs400

First Prize:

First Prize: Thota Indu Priya 19501A12B2 II-S2

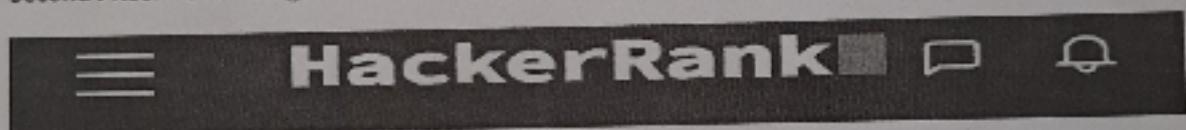


22/25 challenges solved

Rank: 10093 | Points: 500 !



Second Prize: Pavan Durga kumar Gunti 19501A1237 IIS1



C

50 more points to get your gold badge!

Rank: 11734 | Points: 450/500 !

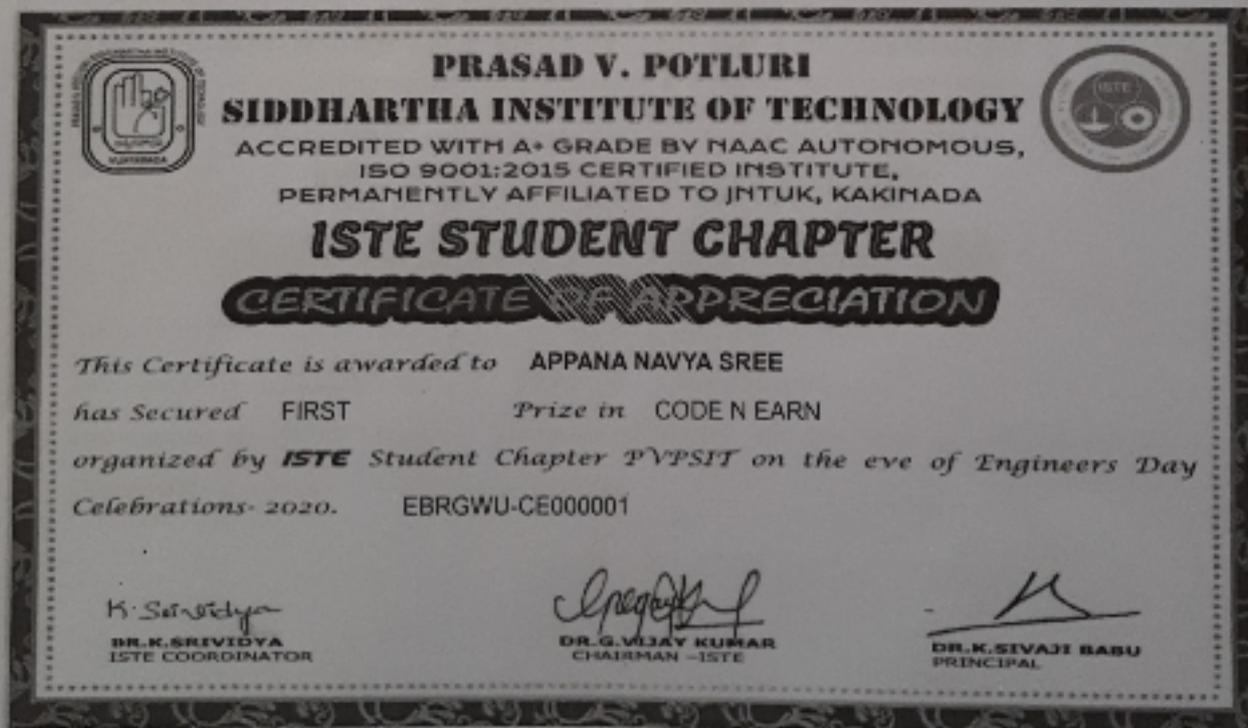
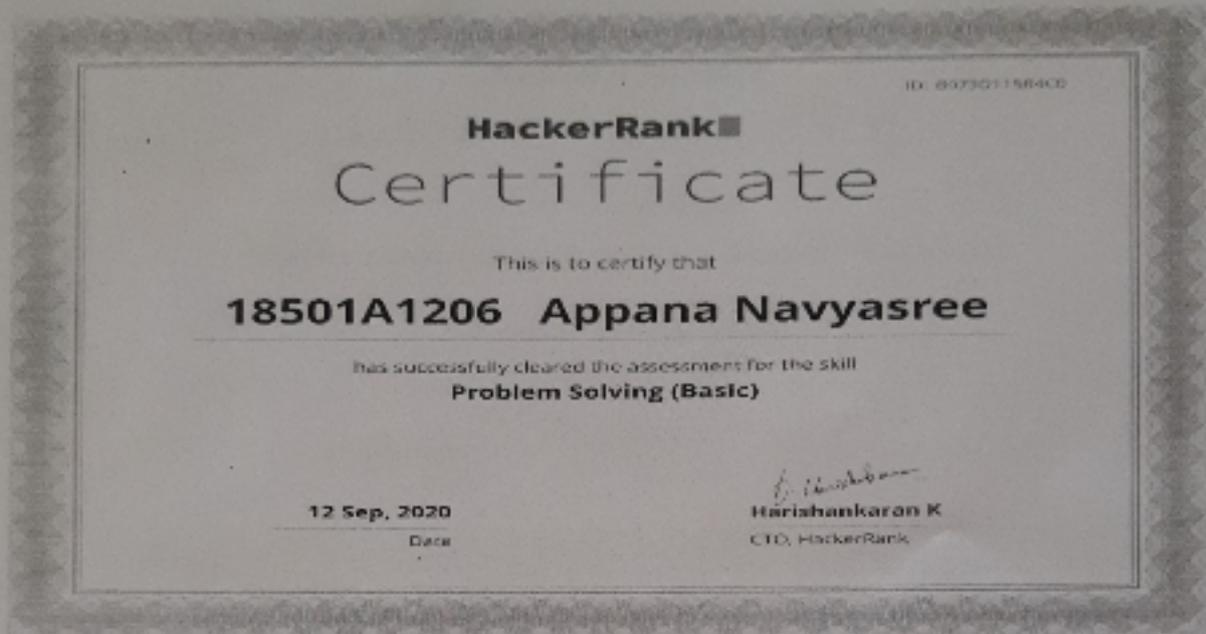


➤ **Problem Solving (Basic) Skills Certification Test HACKER**

RANK For Third Years

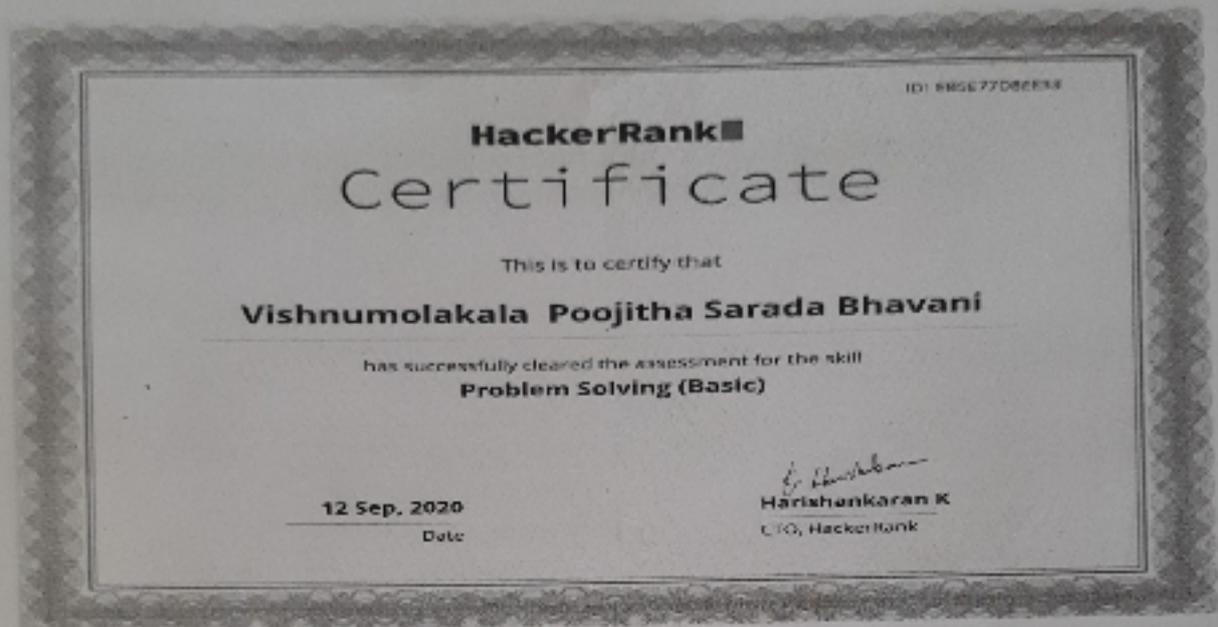
Mr.P.Raviprakash Ms.D.Leela Dharani Ms.K.Srividya

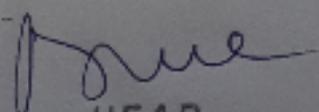
First Prize: Appana Navyasree 18501A1206 III-S1 CASH PRIZE:600



Second Prize: CASH PRIZE:400

V Poojitha Sarada Bhavani 18501A12B7 III-52




HEAD
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DEPARTMENT OF INFORMATION TECHNOLOGY
ISTE STUDENT CHAPTER
(INDIAN SOCIETY FOR TECHNICAL EDUCATION)

The following are the list of students participated in the following events on the eve of engineers day 15-9-2020.

Events are:

1. Solve and Earn Perks on Programming Basics for II B.Tech students
2. Problem Solving (Basic) Skills Certification Test for III B.Tech students

III B.Tech students:

S.NO	Submit Time	Name of the Student	Registration Number
1	12-09-2020	Challa Rama Sirl Vennela Amrutha kalyani	18501A1219
2	12-09-2020	Mathi.Naga devi swapna	18501A1260
3	12-09-2020	V Poojitha Sarada Bhavani	18501A12B7
4	12-09-2020	Yerradla Madhuri	18501A12C0
5	12-09-2020	P. Sri Ranga Sai	18501A1275
6	12-09-2020	ARAVAPALLI DAYANA CHOWDARY	18501A1208
7	12-09-2020	MEKALA SIVA RAMA KRISHNA	19505A1209
8	12-09-2020	I Karthik	18501A1241
9	12-09-2020	Appana Navyasree	18501A1206
10	12-09-2020	Manem. Mercy Sanjana	18501A1259
11	12-09-2020	A.Akshitha	18501A1207
12	12-09-2020	Rayineedu Navya Chowdary	17501A12A0
13	12-09-2020	Sole Therisa	18501A1298
14	12-09-2020	Jagabattula Donthu Naga Chandrika Rani	18501A1242
15	12-09-2020	K. R. R. Deekshita	18501A1249
16	12-09-2020	PriyankaMuraharisetty	18501A1283
17	12-09-2020	Kota sai jaya lahari	18501A1252
18	12-09-2020	Sarayu Maha Lakshmi Perla	18501A1290
19	13-09-2020	Manem. Mercy Sanjana	18501A1259
20	13-09-2020	Bellamkonda Geethanjali	18501A1214
21	13-09-2020	D.Poornima	18501A1227
22	13-09-2020	CHINTHAPALLI SRI DEEKSHA	18501A1223
23	13-09-2020	Sunisha Arimilli	18501A1209
24	13-09-2020	Ande Yatheswar	18501A1204
25	13-09-2020	Bhargavi P	18501A1216
26	13-09-2020	Satish	18501A1229
27	13-09-2020	Keerthana Kakarla	18501A1244
28	13-09-2020	Kolli.Lakshmi Suryamukhi	18501A1248
29	13-09-2020	Alekhy sree j	18501A1243
30	13-09-2020	Ch. Bhargava aai	18501A1221
31	13-09-2020	Ch.uma vaishnavi	18501A1218
32	13-09-2020	Bhargavi P	18501A1216

33	13-09-2020	Garlapati Hema	18501A1235
35	13-09-2020	CH.K.Venkateswara Rao	19505A1203
36	13-09-2020	Ch. Sunilkumar	18501A1224
37	13-09-2020	Balaswamy Reneetha	18501A1213
38	13-09-2020	A Surya Charan	18501A1202
39	13-09-2020	Sahalya	18501A1220
40	13-09-2020	Gatram Rajeswari	18501A1236
41	13-09-2020	Vinay konakanchi	18501A1250
42	14-09-2020	ANUMOLU SAIRESHMA	18501A1205
43	14-09-2021	SIRISHA MAHANKALI	18501A1257

II B.Tech students:

S.NO	Submit Time	Name of the Student	Registration Number
1	14-09-2020	Sivakoti Jahnvi	19501A12A7
2	14-09-2020	Veturi Lakshmi Prathyusha	19501A12C1
3	14-09-2020	A.Durga Grishmitha	19501A1201
4	14-09-2020	Bodasingu Nitish	19501A1210
5	14-09-2020	Bade. Lakshmi vipanya	19501A1206
6	14-09-2020	Pavan Durga kumar Gunti	19501A1237
7	14-09-2020	Thota Indu Priya	19501A12B2
8	14-09-2020	Jyothi naga aruna	19501A1285
9	14-09-2020	MUNAGALA POORNACHANDRA RAHUL	19501A1275

PRIZE WINNERS:

Problem Solving (Basic) Skills Certification Test Hacker Rank For III B.Tech students .

S.NO	ROLL NO	NAME OF THE STUDENT	YEAR	PRIZE	AMOUNT
1	18501A1206	Appana Navyasree	III-S1	First	600
2	18501A12B7	V Poojitha Sarada Bhavani	III-S2	Second	400

Solve and Earn Perks on Programming Basics on C porgramming Basics for II B.Tech Students 48 hours Duration Platform Hackerrank

S.NO	ROLL NO	NAME OF THE STUDENT	YEAR	PRIZE	AMOUNT
1	19501A12B2	Thota Indu Priya	II-S2	First	600
2	19501A1237	Pavan Durga kumar Gunti	II-S1	Second	400

[Signature]
HEAD

INTAEL
STUDENT CHAPTER

**PVP SIDDHARTHA INSTITUTE OF TECHNOLOGY, KANURU, VIJAYAWADA
DEPARTMENT OF INFORMATION TECHNOLOGY**

NOTICE

PVPSIT/50/IT/137/20-21

Dt: 10.06.2021

INTAEL (Information Technology Association for Engineering Literates) of Department of IT has planned to conduct a Technology Awareness Talk (Webinar) on 14.06.2021 afternoon session 1.00 PM to 3.00 PM for the benefit of II B.Tech students through online mode.

TOPIC: Ethical hacking and Cyber Security.

Copy to: The Principal
Notice Board

B. V. Subba Rao
14/6/21
(Dr. B V Subba Rao)

HEAD
Information Technology Department
PRASAD V.POTLURI
SIDDHARTHA INSTITUTE OF TECHNOLOGY
KANURU, VIJAYAWADA-520 007.



Prasad V. Potluri Siddhartha Institute of Technology
Accredited with A+ grade by NAAC

AUTONOMOUS, ISO 9001:2015 Certified Institute,
Permanently Affiliated to JNTUK, KAKINADA

**All UG Programmes are accredited by NBA under Tier-1
Technology Awareness Talk (Webinar)**

ETHICAL HACKING & CYBER SECURITY

Date:-14th June 2021

Time:- 1:00 pm to 3:00 pm

Organised by

DEPARTMENT OF INFORMATION TECHNOLOGY
in Association with INTAEL



RESOURCE PERSON

Mr. N. Bhanu Prakash
IV B. Tech, Dept of IT
PVPSIT

Attendance for the Webinar (14.06.2021)

120 responses

Publish analytics

Register Number

120 responses

20505A1201

19501A1201

19501A1252

19501A1242

19501A1280

20505a1207

19501A1209

19501A1243

19501A1287

Name

120 responses

K.Sai Kruthi

Veturi Lakshmi Prathyusha

Kota Pravallika

Jaggurothi jhansi

Nanduri. Kasi mounika

Rayapuredfi rattaiah

B.Sai Mahitha

KAKARALA TEJASREE

P. Sirisha

email address

120 responses

20505A1201@pvpsiddhartha.ac.in

19501A12C1@pvpsiddhartha.ac.in

19501a1252@pvpsiddhartha.ac.in

19501a1242@pvpsiddharth.ac.in

19501a1280@pvpsiddhartha.ac.in

20505a1207@pvpsiddartha.ac.in

19501a1209@pvpsiddhartha.ac.in

19501a1243@pvpsiddhartha.ac.in

19501a1287@pvpsiddhartha.ac.in

College

120 responses

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PVP Siddhartha Institute Of Technology

Pvp siddhartha

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PvP Siddhartha institute of technology

pvpsit

PVP Siddhartha institute of technology

Feedback on A Technology awareness Talk(Webinar) on "Ethical Hacking & Cyber Security"

119 responses

Publish analytics

Name of the Student

119 responses

Komalla Madhan

Salemdam. Gayathri

Prem

Addanki Lavanya

Bharath Ravelli

Nanduri. Kasi mounika

G.VISHNU VARDHAN

Gunti Pavan Durga Kumar

M.Praharshitha

Registered Number

119 responses

19501A1250

19501A1298

19501A1227

19501A1202

19501A1292

19501A1280

19501a1221

19501A1237

123456

Name of the College

119 responses

PVPSIT

Pvpsit

Prasad V Potluri Siddhartha Institute of Technology

pvpsit

PVP Siddhartha Institute Of Technology

PVP Siddhartha

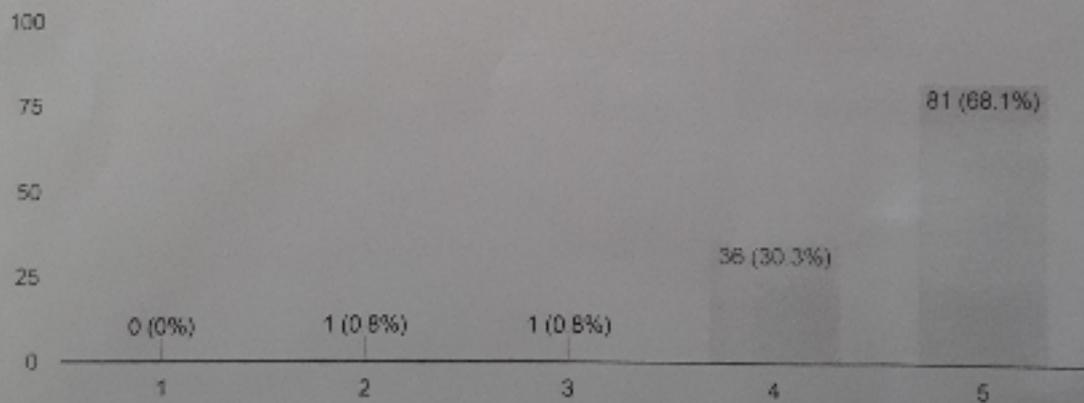
PVP Siddhartha Institute of Technology

Pvp siddhartha

Prasad V Potluri Siddhartha Institute of technology

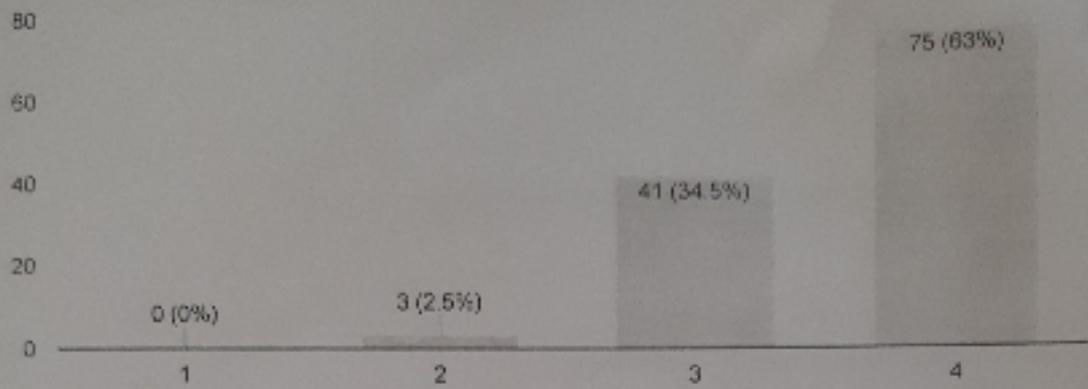
Please rate the Speaker's knowledge of the topic?

119 responses



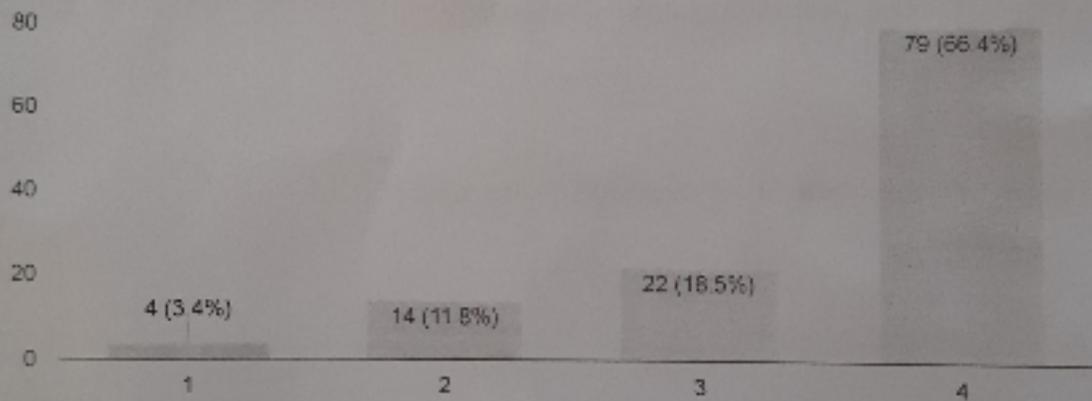
How informative did you find our Webinar?

119 responses



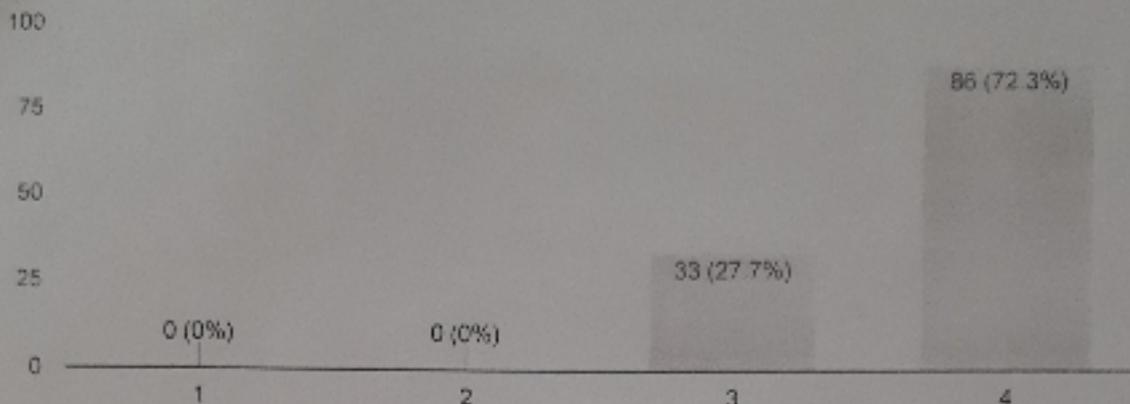
Were your expectations met?

119 responses



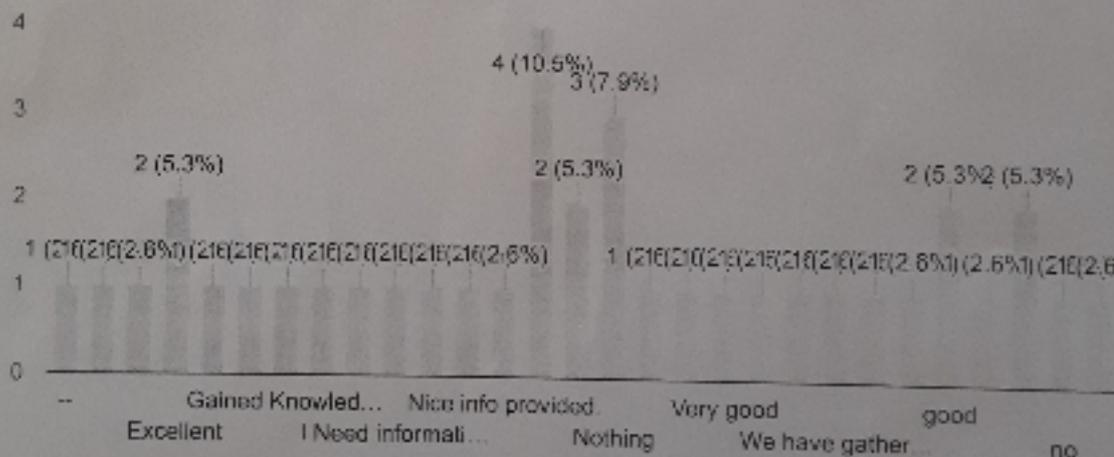
Overall how satisfied were you with this Webinar?

119 responses



Do you have any other comments or feedback?

38 responses



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Posted Jul 26

DMDW UNIT 3

Posted Jul 26

DMDW UNIT 2

Posted Jul 26

DMDW UNIT 1

Posted Jul 26

OLD QUESTION PAPERS

Posted Jun 25

Mining Closed and Max Patterns

Posted May 25

ASSIGNMENT 1(APRIORI ALGORITHM)

Due May 31

DMDW TEXT BOOK

Posted Apr 3

DMDW SYLLABUS

Posted Apr 3





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Posted Mar 24

DM LAB SYLLABUS

Posted Mar 24

DMDW SYLLABUS

Posted Mar 24

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Posted Jan 25

UNIT 4

Posted Dec 28, 2020

UNIT 3

Posted Dec 9, 2020

Assignment 1

Posted Oct 7, 2020





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Quiz1



Quiz on Introduction to Unix File System an...

Due Aug 26, 2020, 2:45 PM

UNIX Syllabus



UNIX Syllabus

Posted Aug 19, 2020

