

Nallamuthu Gounder Mahalingam College

(Autonomous)

Re-Accredited by NAAC and ISO 9001:2015 Certified Institution

Affiliated to Bharathiar University, Coimbatore

Pollachi – 642 001



A REPORT ON

SKILL BASED DEVELOPMENT PROGRAMME ON DATA ANALYTICS USING HADOOP

08.12.2022



Organized by

Department of Computer Science with Data Analytics

and

Department of Computer Science with Artificial Intelligence & Machine Learning



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Name of the Programme : Skill Based Development Programme on Data Analytics Using Hadoop

Department : B.Sc Computer Science with Data Analytics & B.Sc Computer Science with AI and ML

Name of the Organizer : Dr. E. Rama Devi and Dr. S. Niraimathi

Category : Skill Based Development Programme

Date : 08.12.2022

No. of Days : 1

Sessions - 1

No. of Participants: 27

Target Audience: First Year Students

Beneficiaries of the Event: Students

Link to the Activity report on the website:

Event ID: IQAC/2022-23/DEC/173

Enclosure:

1. Programme Schedule
2. Detailed Session Report of the Event
3. Photo
4. Feed Back Form

**SKILL BASED DEVELOPMENT PROGRAMME ON FOUNDATIONS OF
MATHEMATICS AND COMPUTER SCIENCE**

**Department of Computer Science with Data Analytics
Department of Computer Science with AI and ML**

IQAC Ref. No. IQAC/2022-23/DEC/173

Program Schedule

Venue: B115

Time : 2pm – 3pm

Date: 08/12/2022

Prayer Song: R. Gopika

I-B.Sc CS with DA

Welcome Address: P. Vaishnavi

I-B.Sc CS with AI & ML

Resource Person: Dr. A. KrishnaKumar
Assistant Professor
Department of Computer Science
NGM College
Pollachi

Vote of Thanks: V. Yojna
I-B.Sc CS with AI & ML

Detailed Report of the Skill Based Development Programme

Title

Skill Based Development Programme on Data Analytics using HADOOP

Date: 08.12.2022

Preamble

Skill Based Development Programme on Data Analytics using HADOOP has been jointly conducted by the Department of Computer Science with Data analytics and Department of Computer Science with Artificial Intelligence and Machine Learning on 08.12.2022 at NGM College for the First Year Students of both the programmes

Objective

- To know the fundamentals of Data analytics and its tools
- Working principle of HADOOP Technology

Methodology

- Action plan of the Skill Based Development Programme is prepared well in advance and get it approved by Dean and Principal
- Power point presentation have been adopted for the presentation

Event Outcome

Students gain the knowledge of Data analytics and its usecase. They also understand the concept and the working principle of Hadoop.

Participants Profile

A total of 27 students from Department of Computer Science with Data Analytics and Department of Computer Science with AI and ML were participated

Description of the Program

The Skill based Development Programme was inaugurated by Dr. Saravana Babu Dean-Academic and Dr. Umapathy, Dean- Research along with the inaugural speech highlighting the importance of the programme.

Resource Person:

Dr. A. KrishnaKumar

Assistant Professor

Department of Computer Science, NGM College, Pollachi

Title: Data Analytics using HADOOP

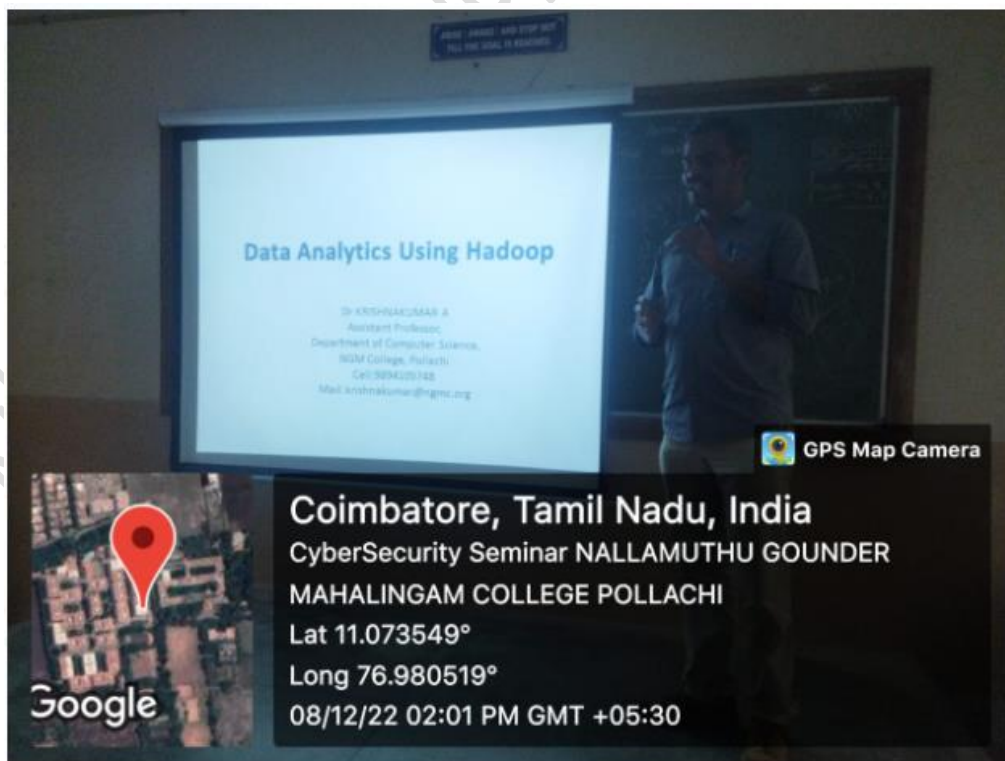
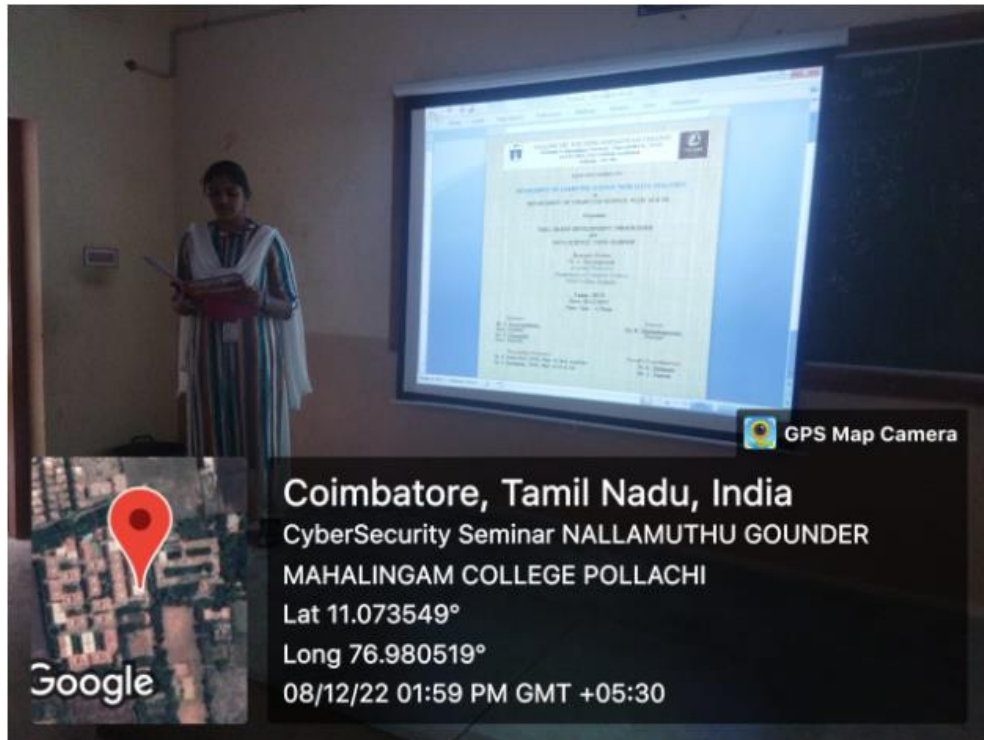
Date: 08.12.2022

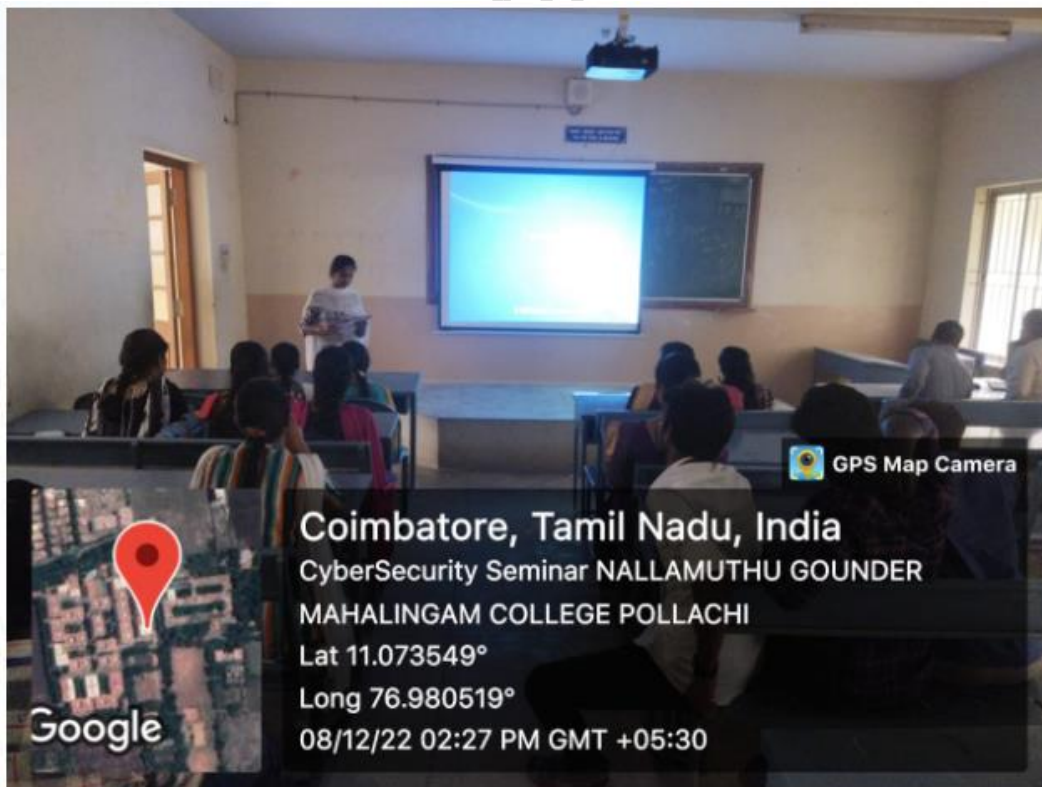
Dr. A. KrishnaKumar, initiated his presentation with the fundamental concepts of Data Analytics and its need to the current scenario. He explained the different types of data analysis and what a data analyst can do. He also detailed about Apache Hadoop, which is an open source framework that is used to efficiently store and process large datasets ranging in size from gigabytes to petabytes of data. Instead of using one large computer to store and process the data, Hadoop allows clustering multiple computers to analyze massive datasets in parallel more quickly. He elaborated four main modules of Hadoop

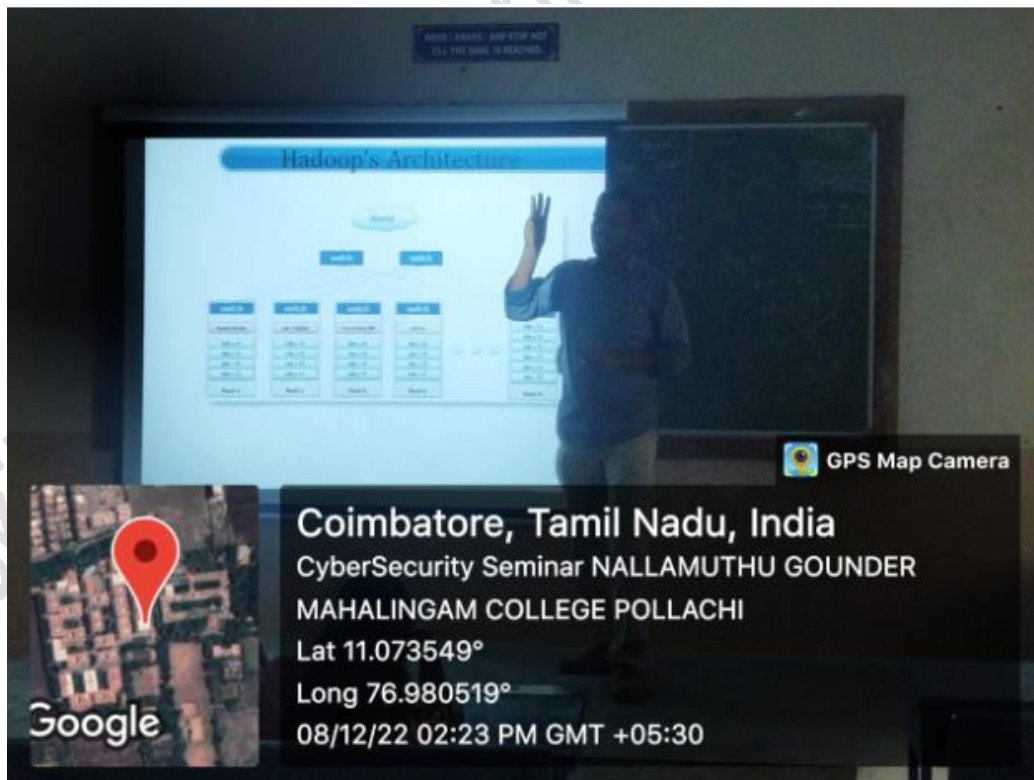
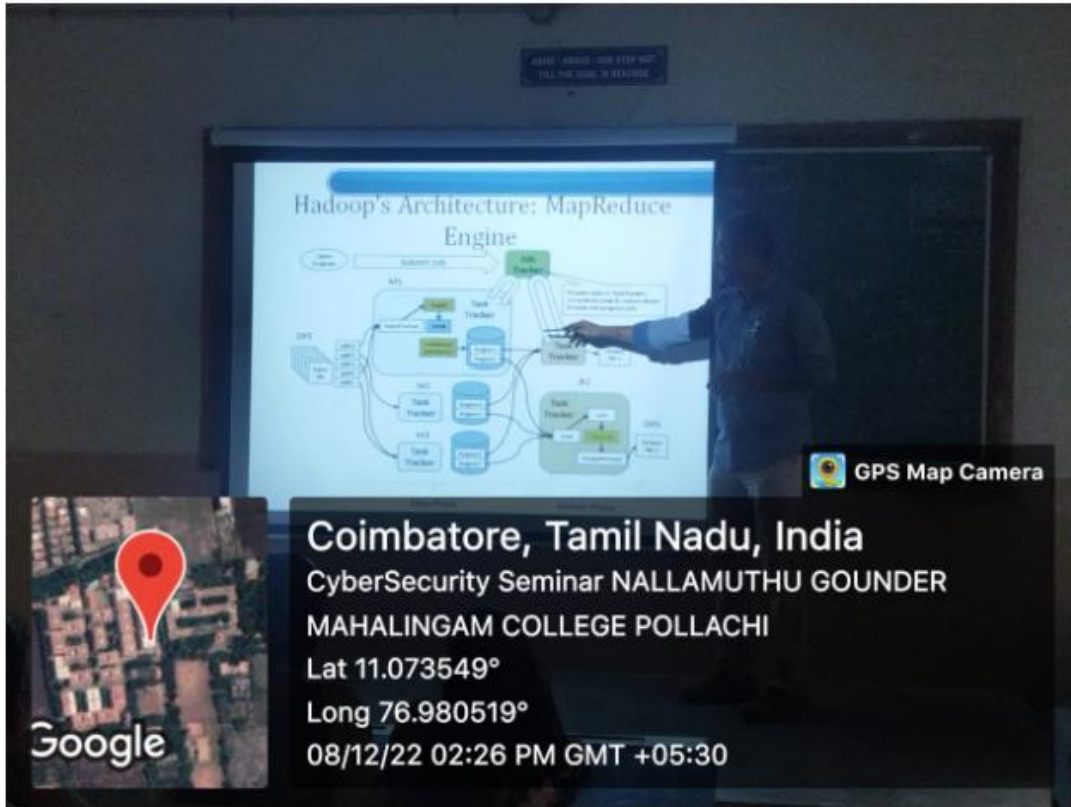
- **Hadoop Distributed File System (HDFS)** – A distributed file system that runs on standard or low-end hardware. HDFS provides better data throughput than traditional file systems, in addition to high fault tolerance and native support of large datasets.
- **Yet Another Resource Negotiator (YARN)** – Manages and monitors cluster nodes and Resource usage. It schedules jobs and tasks.
- **MapReduce** – A framework that helps programs do the parallel computation on data. The map task takes input data and converts it into a dataset that can be computed in key value pairs. The output of the map task is consumed by reduce tasks to aggregate output and provide the desired result.
- **Hadoop Common** – Provides common Java libraries that can be used across all modules.

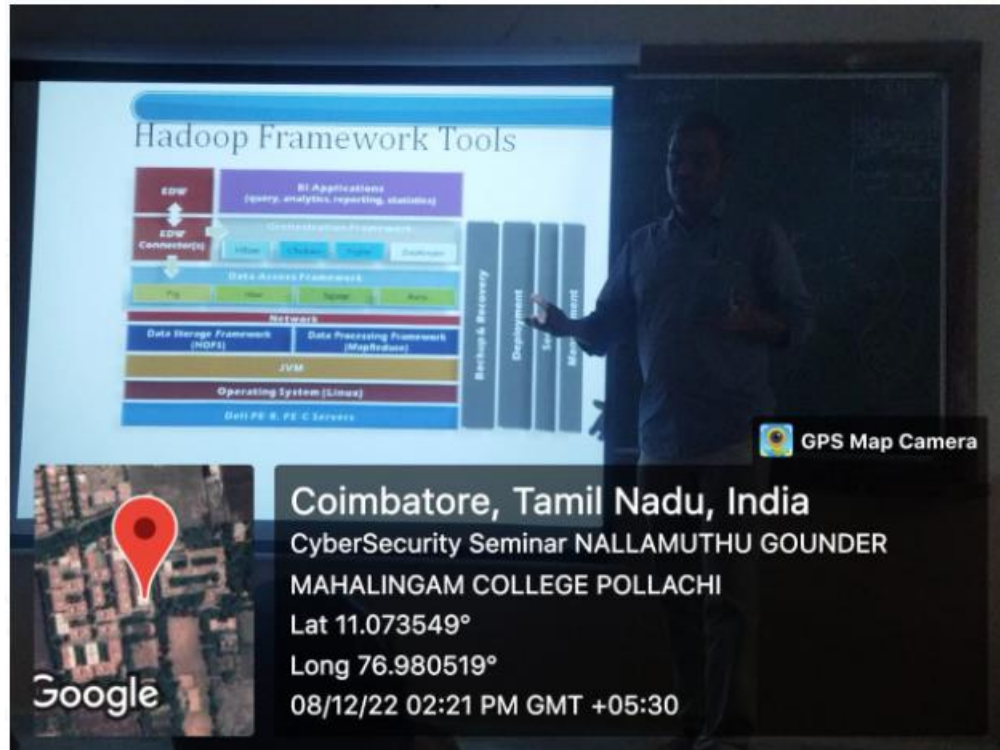
He ended up his session with career path in Data analytics. He also pointed out that there are multiple jobs opportunities in various industries with the demand for data analytics professionals increasing day by day. Some of the career opportunities that require data are Data Analyst, Data Scientist, Data Engineer, and Business analyst, Statistician, Machine Learning Engineer and Quantitative Analyst

Photos



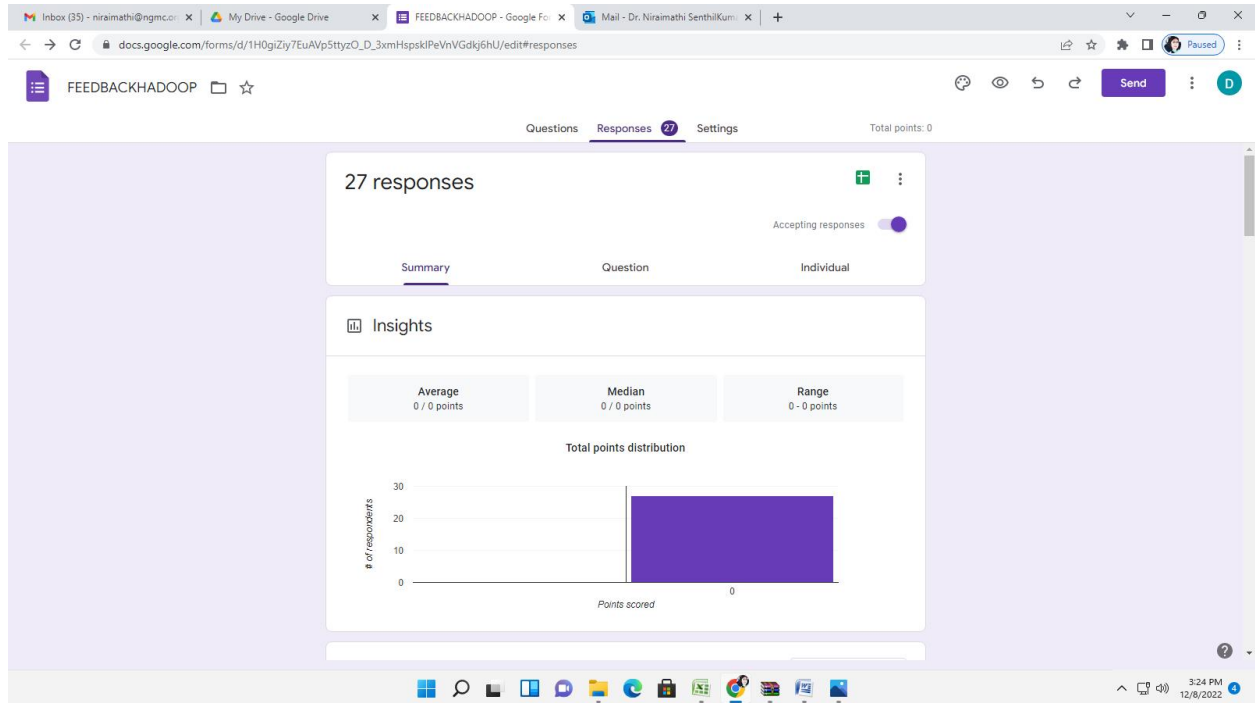






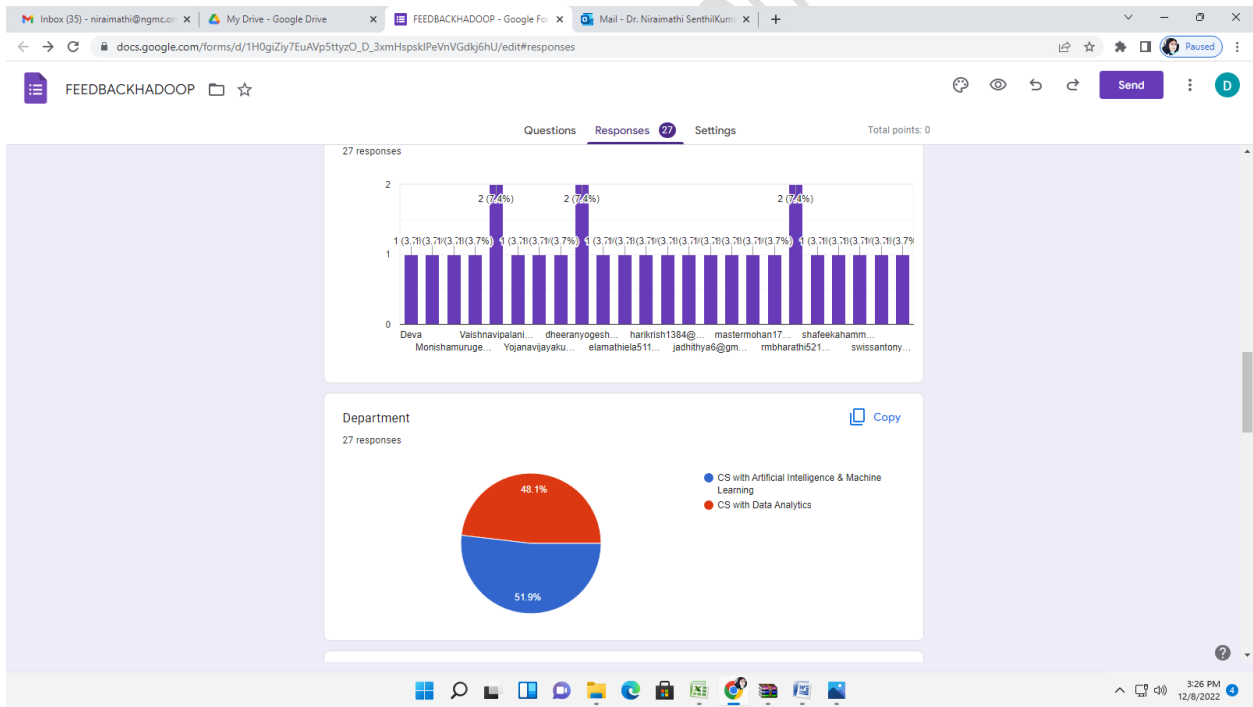
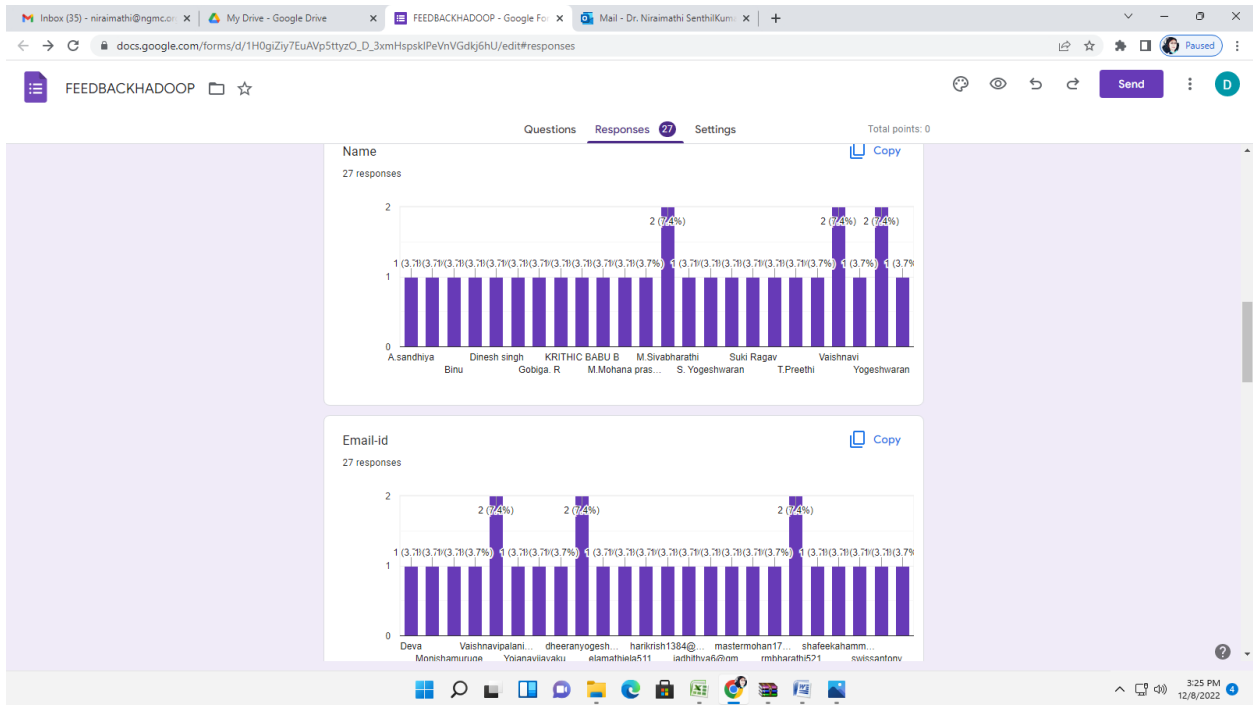
Feedback on Skill Based Development Programme on Data Analytics using HADOOP

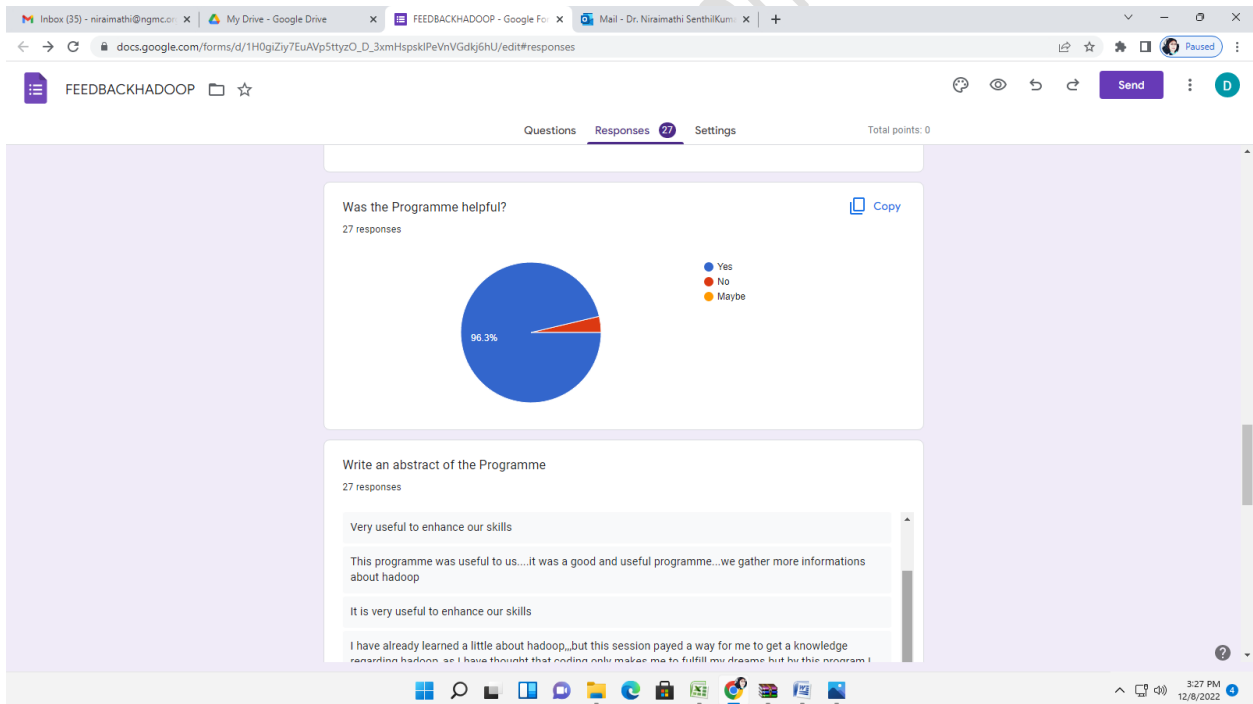
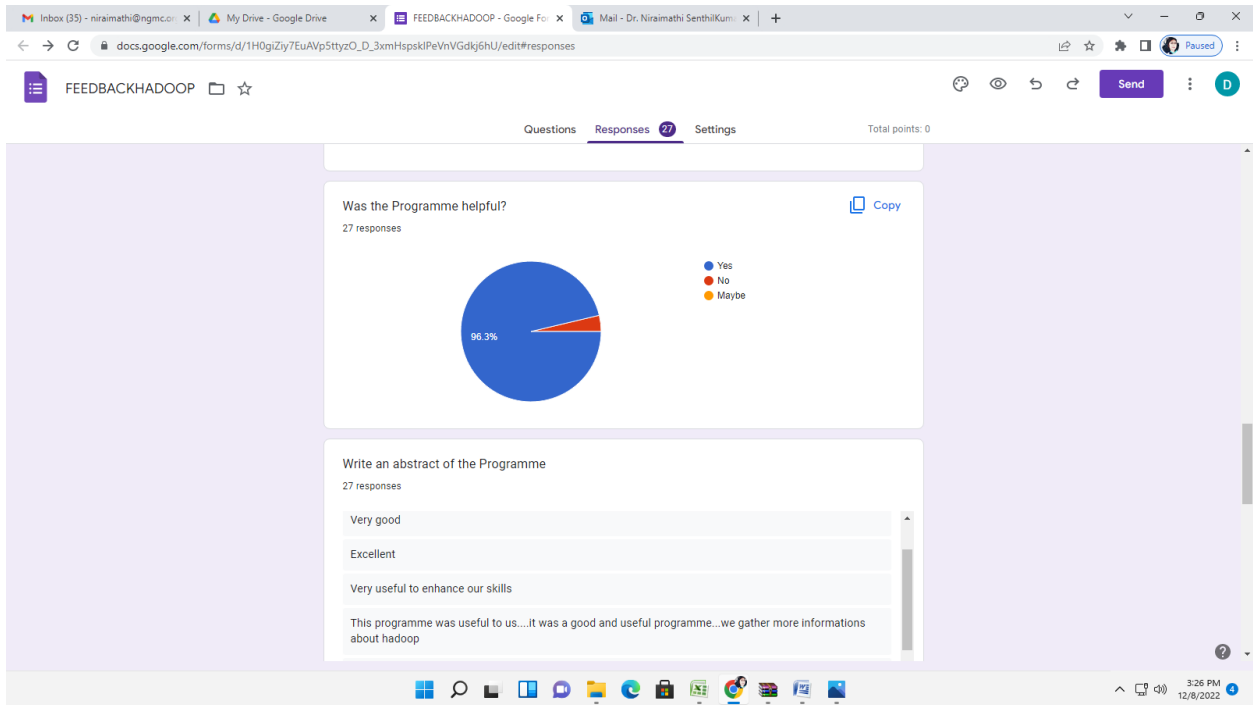
08.12.2022

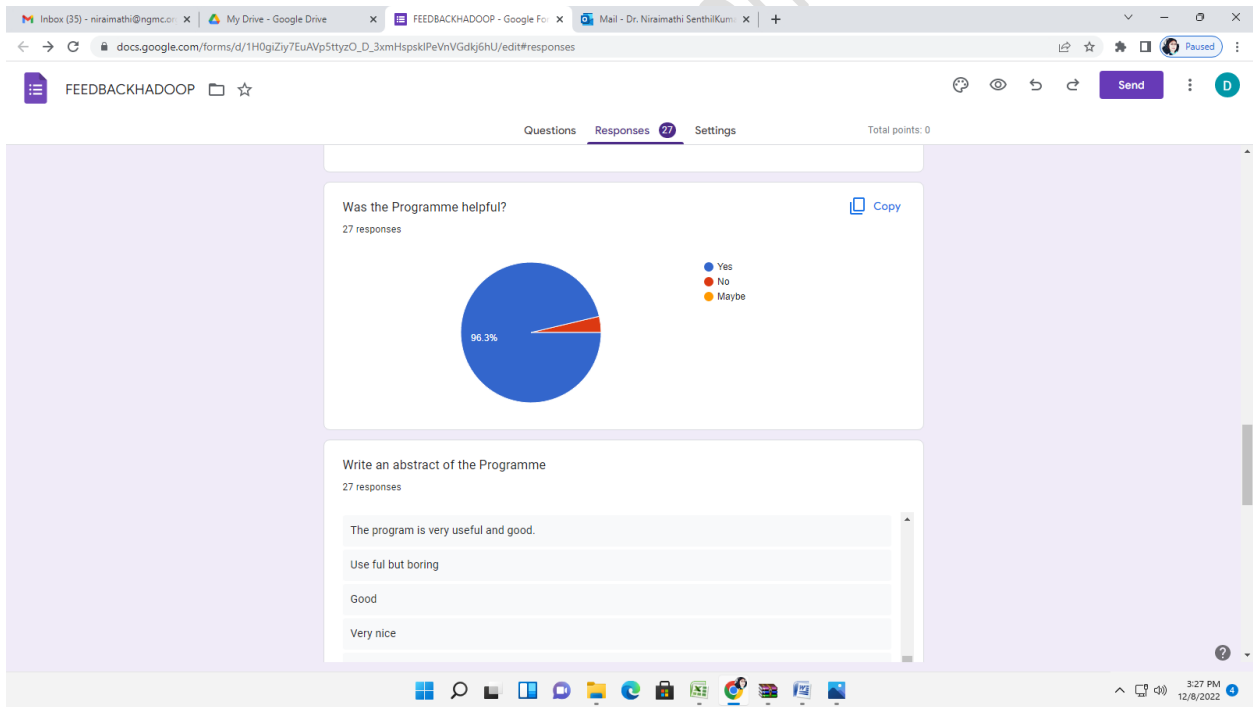
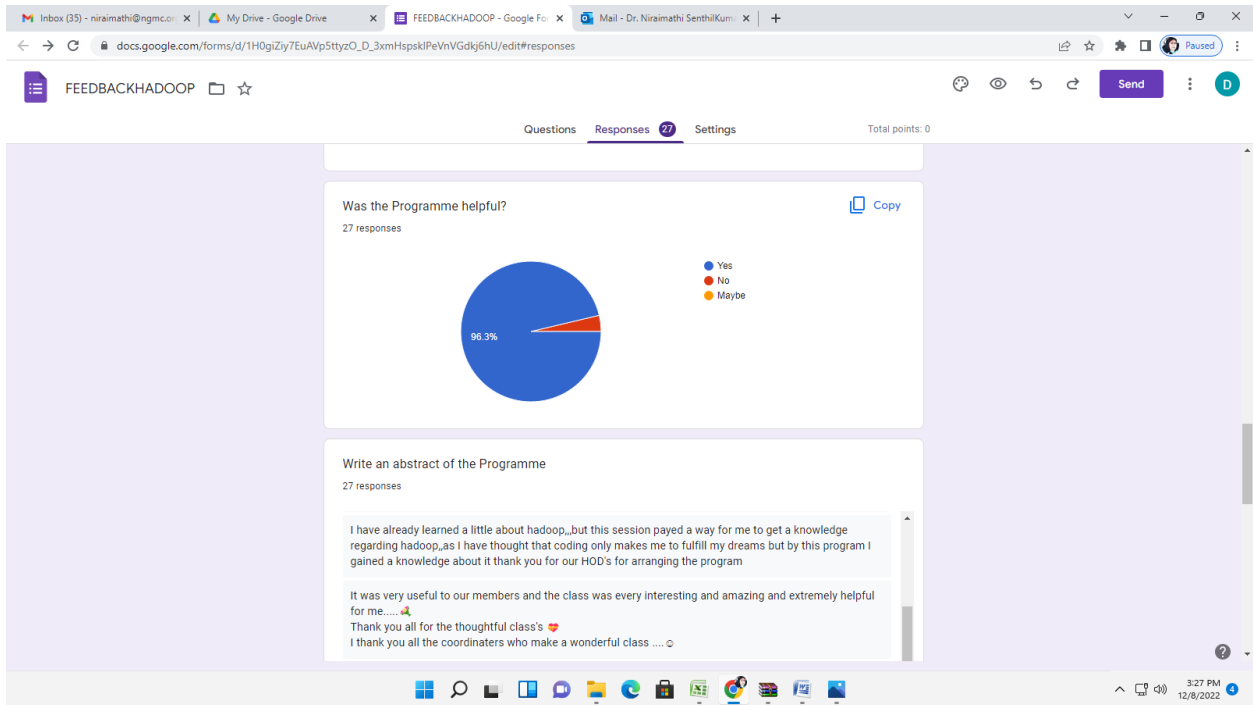


The screenshot shows the 'Responses' tab of the same Google Form, but with the 'Scores' view selected. It displays a table of scores for 27 respondents. The table has three columns: 'Email', 'Score / 0', and 'Score released'. All scores are 0. The 'Score released' column shows the time each score was released. Below the table, there is a 'Name' section with a 'Copy' button. The bottom of the screen shows a Windows taskbar with various application icons and a system clock indicating 3:25 PM on 12/8/2022.

Email	Score / 0	Score released
vaishnavipalanisami@gmail.com	0	Dec 7 10:00 PM
yojanavijayakumar@gmail.com	0	Dec 8 1:00 AM
shafeekahammed03@gmail.com	0	Dec 8 1:01 AM
mastermohan17082004@gmail.com	0	Dec 8 1:01 AM
sukiragav2005@gmail.com	0	Dec 8 1:02 AM
vaishnavipalanisami@gmail.com (1)	0	Dec 8 1:02 AM
binukokkati@gmail.com	0	Dec 8 1:03 AM
harirajanct@gmail.com	0	Dec 8 1:05 AM







Inbox (35) - niraimathi@ngmc.co... My Drive - Google Drive FEEDBACKHADOOP - Google Fo... Mail - Dr. Niraimathi SenthilKum... +

docs.google.com/forms/d/1H0giZy7EuAvp5tzyO_D_3xmHspskiPeVnVGdkj6hU/edit#responses

FEEDBACKHADOOP

Questions Responses 27 Settings Total points: 0

Write an abstract of the Programme

27 responses

It's very help full

None

Help for learners

Use ful

Very useful and nice 🍌

I learned more about Apache Hadoop

Its helpful

helpful for skill developing

I learn about hadoop

Did the session meet your expectations

27 responses

Copy

Windows taskbar icons: File Explorer, Edge, Teams, Outlook, Word, PowerPoint, OneDrive, etc.

3:28 PM 12/8/2022

Inbox (35) - niraimathi@ngmc.co... My Drive - Google Drive FEEDBACKHADOOP - Google Fo... Mail - Dr. Niraimathi SenthilKum... +

docs.google.com/forms/d/1H0giZy7EuAvp5tzyO_D_3xmHspskiPeVnVGdkj6hU/edit#responses

FEEDBACKHADOOP

Questions Responses 27 Settings Total points: 0

Did the session meet your expectations

27 responses

Copy

Pie chart showing responses for "Did the session meet your expectations":

Response	Count	Percentage
Yes	25	92.6%
No	0	0%
Maybe	2	7.4%

Rate the Session

27 responses

Copy

Bar chart showing responses for "Rate the Session":

Rating	Count	Percentage
1	0	0%
2	1	3.7%
3	3	11.1%
4	8	29.6%
5	15	55.6%

Windows taskbar icons: File Explorer, Edge, Teams, Outlook, Word, PowerPoint, OneDrive, etc.

3:29 PM 12/8/2022

