SET SERIES 05

(GOOGLE CLOUD FOUNDATION).

Workshop on GOOGLE CLOUD FOUNDATION conducted by

Skill Development Cell Student Body (SDC-SB).

Conducted on   : 26-10-2024

Duration   : 1 day

Mode of training   : Offline

Venue   : CSE Block (Room no: 1210)

Total number of participants   : 20

Resource Team:

S.No	Name	Roll no	Dept	Year/Sem
1	B.Shravan Kumar	22245A6602	AIML-A	4-1
2	N.Akshay	22245A3201	CSBS	4-1
3	D.Sharon	22241A3207	CSBS	3-1
4	D.Sanjay Kumar	22241A6711	CSDS-A	3-1
5	K.Avinash	22241A6728	CSDS-A	3-1
6	A.Charvivyas	22241A1202	IT-A	3-1
7	Shaik Shameem	21241A6753	CSDS	4-1

GOOGLE CLOUD COMPUTING FOUNDATIONS:

The Google Cloud Computing Foundations course is a series of courses that provide an overview of cloud computing, big data, machine learning, and how Google Cloud fits in:

Target audience: The course is intended for people with little to no experience in cloud computing.

Course content: The course covers cloud basics, big data, machine learning, and how to use Google Cloud. It includes hands-on training through the Qwiklabs platform.

Course structure: The course is made up of 10 modules.

Course certificate: Upon completion, learners earn a badge to display on their profile page.

Faculty use: Faculty can apply to make the course, course materials, and free resources available to their students.

Recommended background: Ideal students have basic IT knowledge, are interested in learning more about cloud and machine learning and are proficient in at least one language like Python or Java. They should also be familiar with shell scripting and SQL basics.

OBJECTIVES OF THE WORKSHOP:

To complete the Labs below and understand the topics well.

01 Cloud Computing Fundamentals

02 Infrastructure in Google Cloud

03 Networking & Security in Google Cloud

04 Data, ML, and AI in Google Cloud

05 Implement Load Balancing on Compute Engine

06 Set Up an App Dev Environment on Google Cloud

07 Build a Secure Google Cloud Network

08 Prepare Data for ML APIs on Google Cloud

09 Google Cloud Essentials

10 Networking Fundamentals in Google Cloud

11 Baseline: Infrastructure

12 Baseline: Data, ML, AI

OUTCOMES:

After completing the "Google Cloud Computing Foundations" course, students can expect several positive outcomes:

1. **Foundational Knowledge**: A solid understanding of cloud computing concepts, including services, deployment models, and key terminologies.
2. **Google Cloud Familiarity**: Hands-on experience with Google Cloud Platform (GCP), enabling students to navigate its interface and utilize core services.
3. **Technical Skills and Project Development**: Proficiency in essential tools such as Google Compute Engine and Google Cloud Storage, along with the ability to design and implement simple cloud-based applications.
4. **Career Opportunities**: Enhanced job prospects in cloud-related roles, as many employers value foundational cloud computing knowledge.
5. **Preparation for Advanced Learning**: A strong basis for pursuing specialized courses in cloud architecture, machine learning, or data engineering.
6. **Networking**: Opportunities to connect with peers and industry professionals, fostering potential collaborations or job opportunities.

Additionally, the workshop emphasized hands-on engagement and expert guidance, enabling participants to confidently complete labs and gain an in-depth understanding of the topics. This immersive training prepares attendees to explore advanced subjects like Generative AI. Overall, students are well-equipped to contribute to cloud computing projects and pursue further education in this rapidly growing field.

Dr.G.S.Bapiraju
Chief Instructor, SDC