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	Pune Institute of Compoter Technology How.
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	Department of Information Technology
1}	Class: TECITO (100 CLASSION 1) Subject: LP-II CWADES
	Assignment No.: 26 A.Y.: 2023-24 Date:
	Title! Docker April 11/11 10 11 11/12 11/12 11/20 11/2
	· Maker place prov
	Problem Statement:
Sul,	Create Docker Container Environment CHVIDIIA Docker or
	any other).
	and all parellotest.
	Objective:
	To learn about containerization and Docker.
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W 1	Theory: + U map 12 don't ATTIVITY prom its way to
	Docker is a popular containerization platform that enables
14 -	developer to package their applications and their dependencies
	into a container. There containers can then be deployed on any
	system with Docker installed, making it a highly portable
	and flexible volution for deploying applications.
dos	and flexible volution for deploying applications:
$I_1 J_2 J_3$	NVIDIA Docker is an extension of the Docker platform that
)	allows developers to run GPU-accelerated applications inside
-1, 1	Docker containers. This is particularly useful for machine
	learning and data science applications, as there often require
	access to specialized hardware like GPUs.
	Features of Docker -
	· Docker has the ability to reduce the size of development by providing a smaller tootprint of the operating system via containers.
	providing a smaller toolprint of the operating system via
	U Containers.

classmate

· with container, it becomes eather for teams across different units, such as development, QA and Operations to work reamlersly aross applications.

- · You can deploy Jother containers anywhere, on any physical and virtual machine and ever on the cloud
- · Since Docker containers are pretty lightweight, they are very easily icalable

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Rolling Barries

- · Installing Docker.
  · Creating a Dockertile
- · Building the Docker images his not was triads runs of
- · Running the Docker confainer.

It you are using MVIDIA Docker, you will need to follow additional stept to configure the container for Cipu support.

This hypically involves installing the MVIDIA driver and the MVIDIA Docker runtime on your system when

Conclusion in the property of vodelar adjust him

Uring Docker containers, including NVIDIA Docker, for machine learning and data science applications can improve postability. reproducibility, icalability, and rewrity por the

and according becoming it made

It can also simplify the deployment process and make it earger to whore applications with other.

Forburs of Docker The state By torrest of to target to receive a Bubicary