

# Experiential Learning

How to use the Online Lab Platform

# Running Labs Locally using Google Colab

colab.research.google.com

Welcome To Colab

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Notebooks can be saved on your Google Drive.  
Only Python Programs can be run on this environment  
(Cannot be used for Big Data)

Search notebooks

Title	Last opened ↓	First opened ↑↓	
<u>Welcome To Colab</u>	6:19 PM	6:19 PM	

# Mapping of Labs

## MSc Courses

Statistical Modelling & Inferencing - Programming Lab

Data Pre-processing - Programming Lab

Feature Engineering - Programming Lab

Data Visualization & Storytelling - DVI Lab, Programming Lab

Data Stores & Pipelines - Big Data Lab

## BS Courses

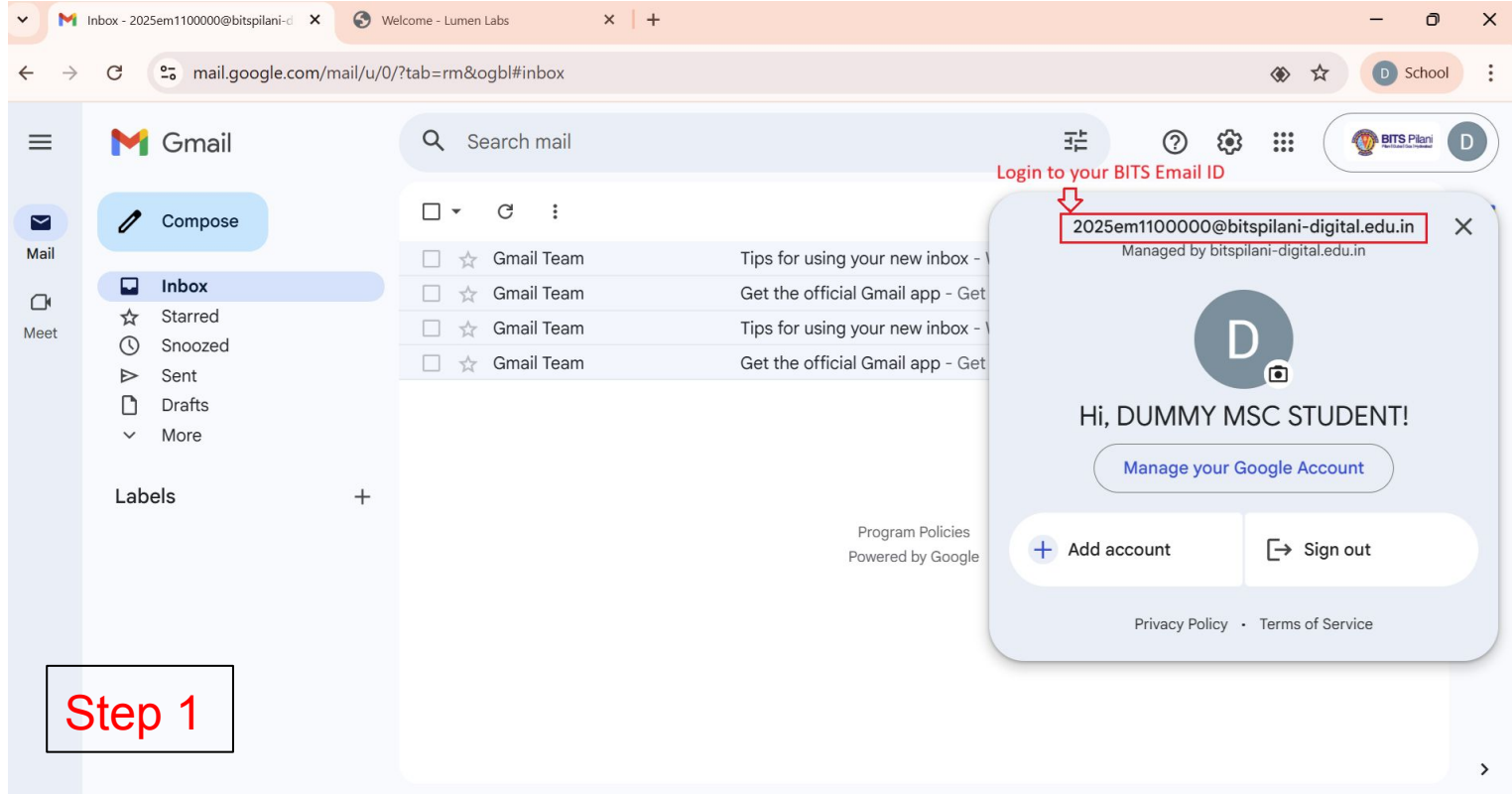
**Programming-Lab** to be used for all the courses

Probability & Statistics

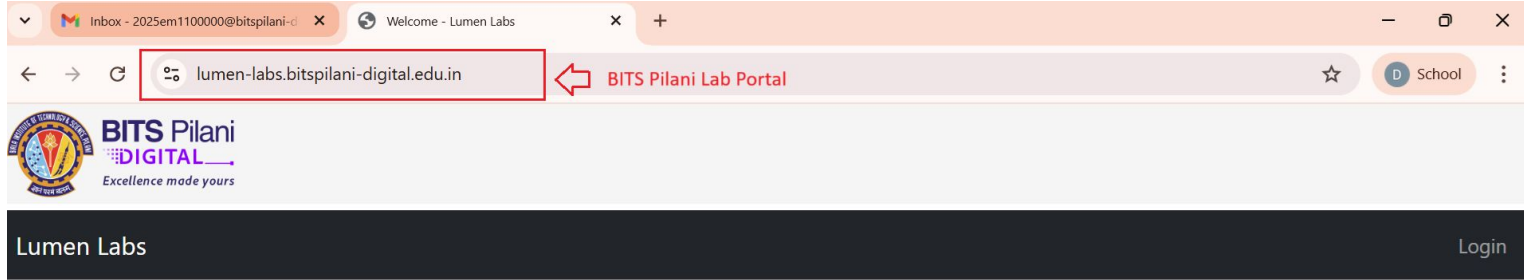
Computer Programming

Computing Systems

# Login to BITS Pilani Digital Lab Platform



# BITS Pilani Digital Lab Platform



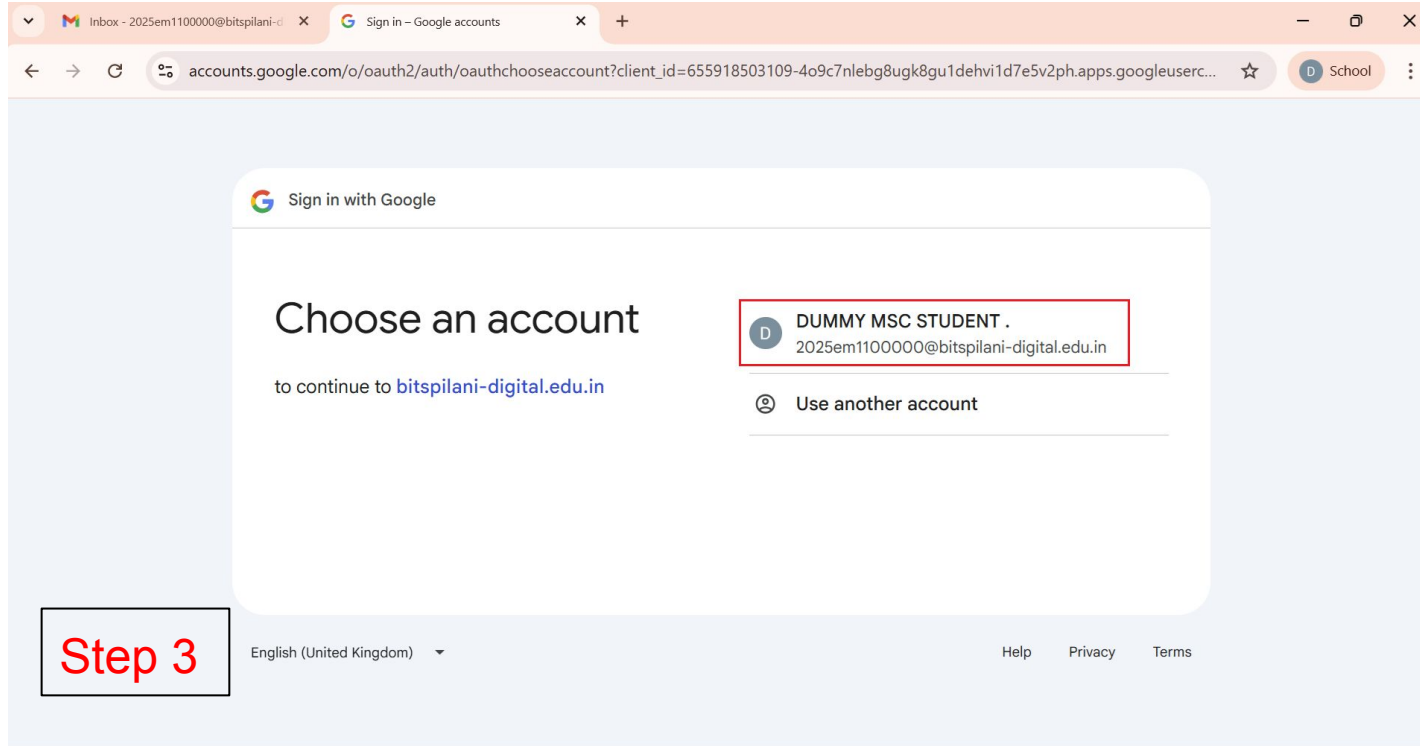
## Welcome to Lab Access Portal

Please login to get started.

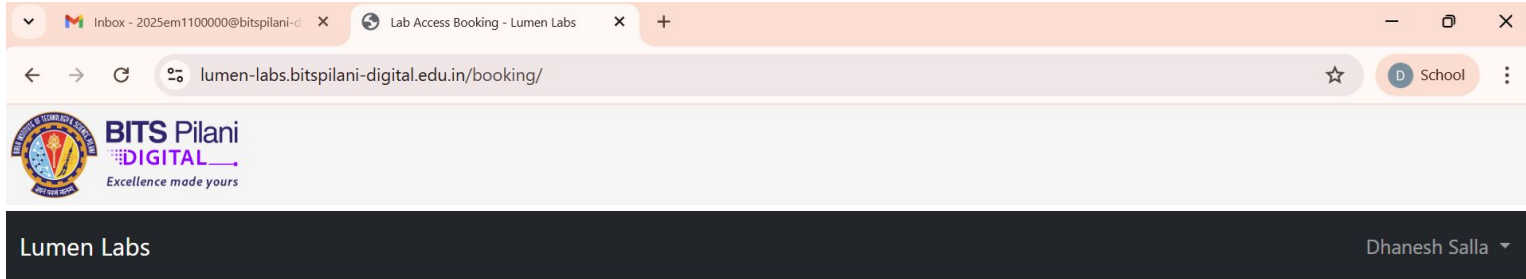
Login

Step 2

# BITS Pilani Digital Lab Platform



# BITS Pilani Digital Lab Platform



## Lab Access Booking

Course / Experiment: Date: Slot: Book

--- Select Course / Experiment ---  
--- Select Date ---  
--- Select Slot ---

Big-Data-Lab

← Labs for your Programme is listed here

Step 4

## Step 5

Click on the  
Launch button




# BITS Pilani Digital Lab Platform

Inbox - 2025em1100000@bitspilani-d

Lab Access Booking - Lumen Labs

+

lumen-labs.bitspilani-digital.edu.in/booking/



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Lumen Labs

Dhanesh Salla

Course / Experiment:

Date:

Slot:

Book

--- Select Course / Experiment ---

--- Select Date ---

--- Select Slot ---

A fresh AWS instance was launched for you. Please wait for a few minutes before connecting.

Step 6

Course	Machine	Time Used	Time Remaining	State	Control
Big-Data-Lab	i-03ab04de9831caeb9	1s	21h 59m	pending	Please wait ...

This appears first

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# BITS Pilani Digital Lab Platform

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Lab Access Booking - Lumen Labs

lumen-labs.bitspilani-digital.edu.in/booking/

School



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**Lumen Labs**

Dhanesh Salla

Course / Experiment:  
--- Select Course / Experiment ---

Date:  
--- Select Date ---

Slot:  
--- Select Slot ---

Book

A fresh AWS instance was launched for you. Please wait for a few minutes before connecting.

Step 7

NOTE: The machine is running now

Course	Machine	Time Used	Time Remaining	State	Control
Big-Data-Lab	i-03ab04de9831caeb9	2m 36s	21h 57m	started	<div>Connect</div> <div>Stop</div>

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# BITS Pilani Digital Lab Platform

The screenshot shows the BITS Pilani Digital Lab Platform interface. A modal dialog titled "Connect" is open, displaying the following text:

Please use the following credentials once you've launched the connection:

Username: ccloud  
Password: ccloud

Below the credentials, there is a red arrow pointing to a blue button labeled "Web Console".

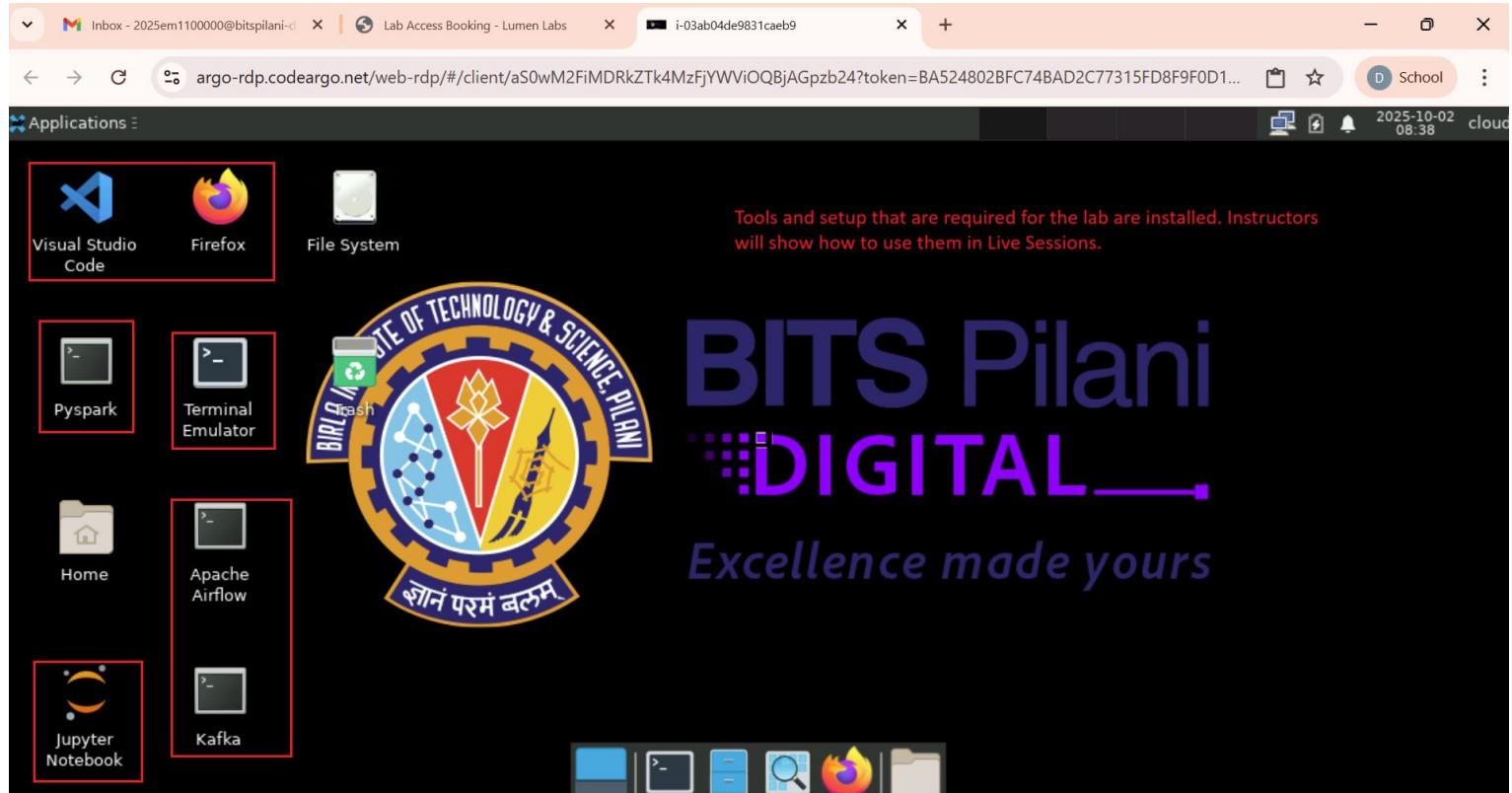
The background interface includes the BITS Pilani logo, the text "Lumen Labs", and a table of lab instances. A notification bar at the bottom states: "A fresh AWS instance was launched for you. Please wait for a few minutes before connecting."

Course	Machine	Time Used	Time Remaining	State	Control
Big-Data-Lab	i-03ab04de9831caeb9	5m 51s	21h 54m	started	<button>Connect</button> <button>Stop</button>

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Step 8

# BITS Pilani Digital Lab Platform



Step 9

# BITS Pilani Digital Lab Platform



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Don't forget to stop the machine after your work

Lumen LabsDhanesh Salla ▾

Course / Experiment:  
--- Select Course / Experiment ---

Date:  
--- Select Date ---

Slot:  
--- Select Slot ---

Book

A fresh AWS instance was launched for you. Please wait for a few minutes before connecting. ✕

STOP THE MACHINE AFTER YOUR WORK

Course	Machine	Time Used	Time Remaining	State	Control
Big-Data-Lab	i-03ab04de9831caeb9	14m 16s	21h 45m	started	<div>ConnectStop</div>

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Step 10