

# PARTNER SageMaker Studio for Data Scientists Installation Guide

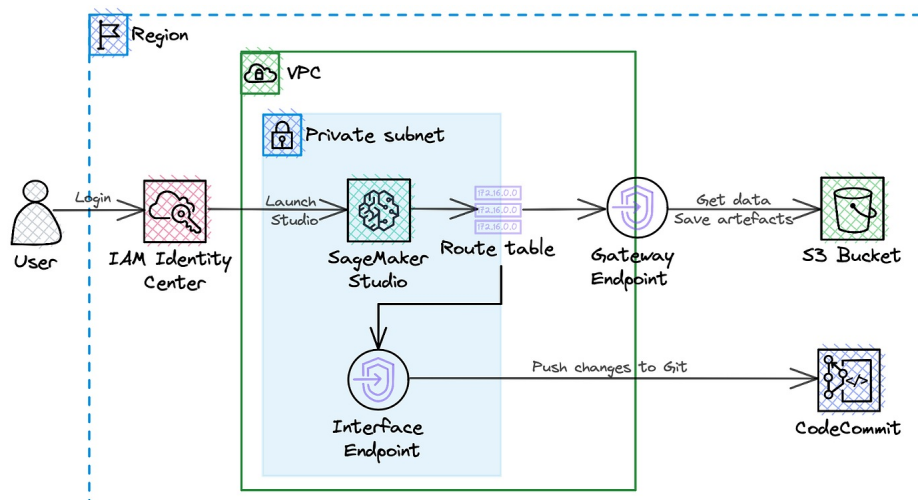
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**PARTNER**

## PARTNER SageMaker Studio for Data Scientists



## Product Information

- **Product Name:** Amazon SageMaker Studio for Data Scientists
- **Length:** 3 days
- **Price (Incl. GST):** \$2860
- **Provider:** Lumify Work
- **Official AWS Training Partner:** Australia, New Zealand, and the Philippines
- **Description:** Amazon SageMaker Studio is a comprehensive platform designed specifically for data scientists to prepare, build, train, deploy, and monitor machine learning (ML) models quickly. It offers a wide range of capabilities that are purpose-built for ML tasks.

## CLOUD COMPUTING AND VIRTUALISATION

Amazon SageMaker Studio for Data Scientists

- LENGTH: 3 days
- PRICE (Incl. GST): \$2860

## AWS AT LUMIFY WORK

Lumify Work is an official AWS Training Partner for Australia, New Zealand, and the Philippines. Through our Authorised AWS Instructors, we can provide you with a learning path that's relevant to you and your organisation, so you can get more out of the cloud. We offer virtual and face-to-face classroom-based training to help you build your cloud skills and enable you to achieve industry-recognised AWS Certification.

## Why Study This Course

This three-day advanced level course is designed to help experienced data scientists improve their productivity throughout the entire ML lifecycle using the tools available in SageMaker Studio. The course includes presentations, demonstrations, practice labs, discussions, and a capstone project.

## What You'll Learn

This course will teach participants how to:

1. Accelerate the preparation, building, training, deployment, and monitoring of ML solutions using Amazon SageMaker Studio.

## Course Subjects

### Module 1: Amazon SageMaker Set up and Navigation

- Launch SageMaker Studio from the AWS Service Catalog
- Navigate the SageMaker Studio UI
- Demo 1: SageMaker UI Walkthrough
- Lab 1: Launch SageMaker Studio from AWS Service Catalog

### Module 2: Data Processing

- Use Amazon SageMaker Studio to collect, clean, visualize, analyze, and transform data
- Set up a repeatable process for data processing

- Use SageMaker to validate that collected data is ML ready
- Detect bias in collected data and estimate baseline model accuracy
- Lab 2: Analyze and Prepare Data Using SageMaker Data Wrangler
- Lab 3: Analyze and Prepare Data at Scale Using Amazon EMR
- Lab 4: Data Processing Using SageMaker Processing and the SageMaker Python SDK
- Lab 5: Feature Engineering Using SageMaker Feature Store

My instructor was great being able to put scenarios into real world instances that related to my specific situation. I was made to feel welcome from the moment I arrived and the ability to sit as a group outside the classroom to discuss our situations and our goals was extremely valuable. I learnt a lot and felt it was important that my goals by attending this course were met. Great job Lumify Work team.

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#### **Module 4: Deployment and Inference**

- Use Model Registry to create a model group; register, view, and manage model versions; modify model approval status; and deploy a model
- Design and implement a deployment solution that meets inference use case requirements
- Create, automate, and manage end-to-end ML workflows using
- Amazon SageMaker Pipelines
- Lab 9: Inferencing with SageMaker Studio
- Lab 10: Using SageMaker Pipelines and the SageMaker Model Registry with SageMaker Studio

#### **Lumify Work Customised Training**

We can also deliver and customise this training course for larger groups saving your organisation time, money and resources. For more information, please contact us on 1 800 853 276.

#### **Module 5: Monitoring**

- Configure a SageMaker Model Monitor solution to detect issues and initiate alerts for changes in data quality, model quality, bias drift, and feature attribution (explainability) drift
- Create a monitoring schedule with a predefined interval
- Demo 3: Model Monitoring

#### **Module 6: Managing SageMaker Studio Resources and Updates**

- List resources that accrue charges
- Recall when to shut down instances
- Explain how to shut down instances, notebooks, terminals, and kernels
- Understand the process to update SageMaker Studio

#### **Module 3: Model Development**

- Use Amazon SageMaker Studio to develop, tune, and evaluate an ML model against business objectives and

fairness and explainability best practices

- Fine-tune ML models using automatic hyperparameter optimisation capability
- Use SageMaker Debugger to surface issues during model development
- Demo 2: Autopilot
- Lab 6: Track Iterations of Training and Tuning Models Using SageMaker Experiments
- Lab 7: Analyse, Detect, and Set Alerts Using SageMaker Debugger Lab 8: Identify Bias Using SageMaker Clarify

### **Capstone**

The Capstone lab will bring together the various capabilities of SageMaker Studio discussed in this course. Students will be given the opportunity to prepare, build, train, and deploy a model using a tabular dataset not seen in earlier labs. Students can choose among basic, intermediate, and advanced versions of the instructions.

### **Capstone Lab:**

Build an End-to-End Tabular Data ML Project Using SageMaker Studio and the SageMaker Python SDK

**Please note:** This is an emerging technology course. Course outline is subject to change as needed.

## **WHO IS THE COURSE FOR?**

This course is intended for:

1. Experienced data scientists who are proficient in ML and deep learning fundamentals
2. Relevant experience includes using ML frameworks, Python programming, and the process of building, training, tuning, and deploying models

We can also deliver and customise this training course for larger groups – saving your organisation time, money and resources. For more information, please contact us on 1800 U LEARN (1800 853 276)

## **PREREQUISITES**

It is recommended that all attendees have the following prior to attending this course:

- Completed AWS Technical Essentials course
- Experience in Python programming

It is recommended that attendees who are not experienced data scientists also have the following prior to attending this course:

- Completed The Machine Learning Pipeline on AWS course
- Completed Deep Learning on AWS course

The supply of this course by Lumify Work is governed by the booking terms and conditions. Please read the terms and conditions carefully before enrolling in this course, as enrolment in the course is conditional on acceptance of these terms and conditions.

<https://www.lumifywork.com/en-au/courses/amazon-sagemaker-studio-for-data-scientists/>

Call 1800 853 276 and speak to a Lumify Work Consultant today!

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## FAQ's

How long is the course?

The course is 3 days long.

What is the price of the course?

The price of the course, including GST, is \$2860.

Who is the provider of this course?


Lumify Work is the official AWS Training Partner for Australia, New Zealand, and the Philippines.

What is Amazon SageMaker Studio?

Amazon SageMaker Studio is a comprehensive platform designed specifically for data scientists to prepare, build, train, deploy, and monitor machine learning (ML) models quickly.

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## Documents / Resources

	<p><b><a href="#">PARTNER SageMaker Studio for Data Scientists</a></b> [pdf] Installation Guide SageMaker Studio for Data Scientists, SageMaker, Studio for Data Scientists, Data Scientists, Scientists</p>
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## References

-  [Lumify Work | Lumify Work AU](#)

- [!\[\]\(2dc8cdc0c918df88cde61039ecf68682\_img.jpg\) Lumify Work | Lumify Work AU](#)
- [!\[\]\(793119bf0d613bd9b598fb8668922511\_img.jpg\) Amazon SageMaker Studio for Data Scientists | Lumify Work AU](#)
- [!\[\]\(0a4819029e810ca9d2aba79260b63a4d\_img.jpg\) AWS Technical Essentials | Lumify Work AU](#)
- [!\[\]\(5b78a2fafd05db5e14d20573d68ef9b3\_img.jpg\) Deep Learning on AWS | Lumify Work AU](#)
- [!\[\]\(25fe2c0d7244c22c84de6bda963b471d\_img.jpg\) The Machine Learning Pipeline on AWS | Lumify Work AU](#)
- [User Manual](#)