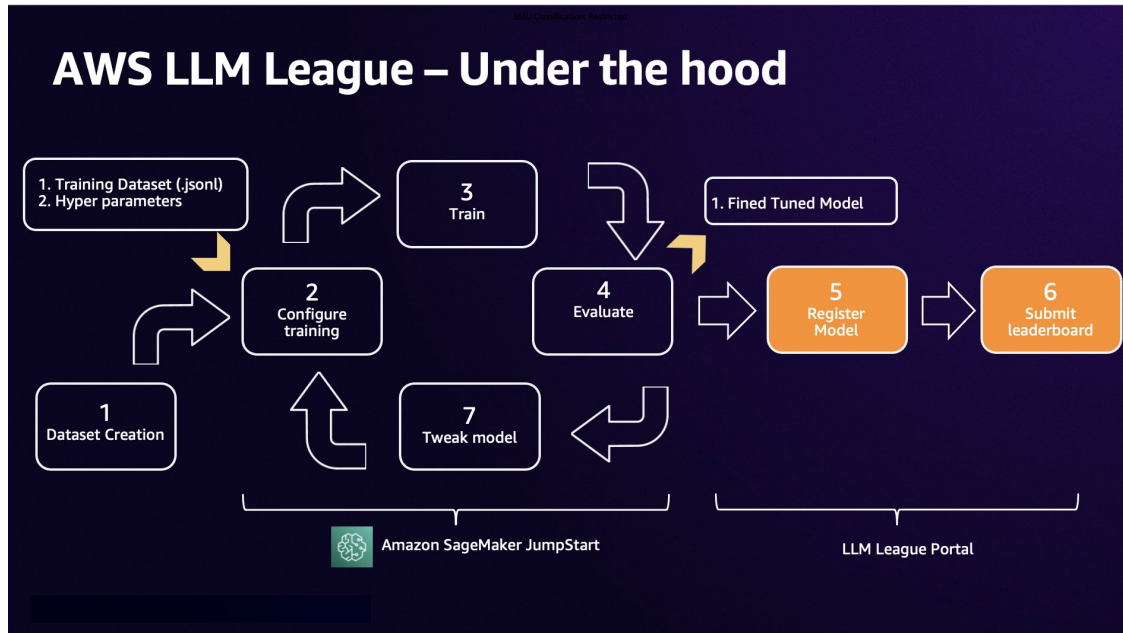


[AWS LLM League] Instructions for Participant – POLYCC 2025



Step 1: Log in to the AWS console & Amazon SageMaker Studio using the sponsoring account's credentials.

Step 2 & 3: Create your first training job using Amazon SageMaker JumpStart

Step 4: Evaluation against Mock Instructions (Optional)

Step 5: Login to LLM League portal & register model

Step 6: Submit model to leaderboard

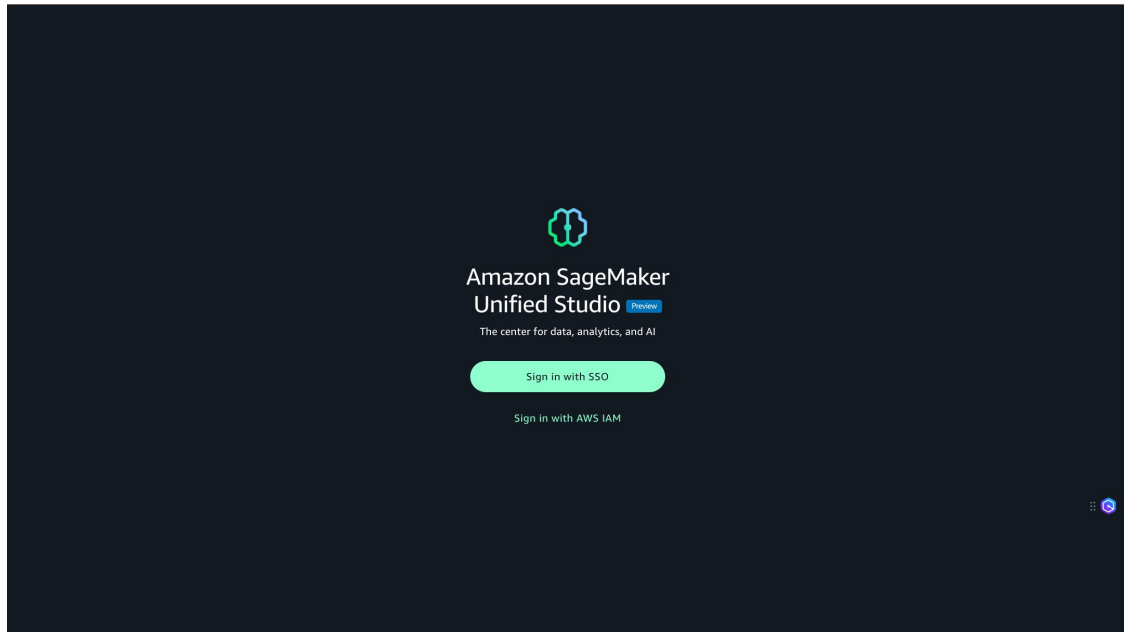
Step 7: Tweak model and repeat

(Step 8): Check remaining hours left on your team's account

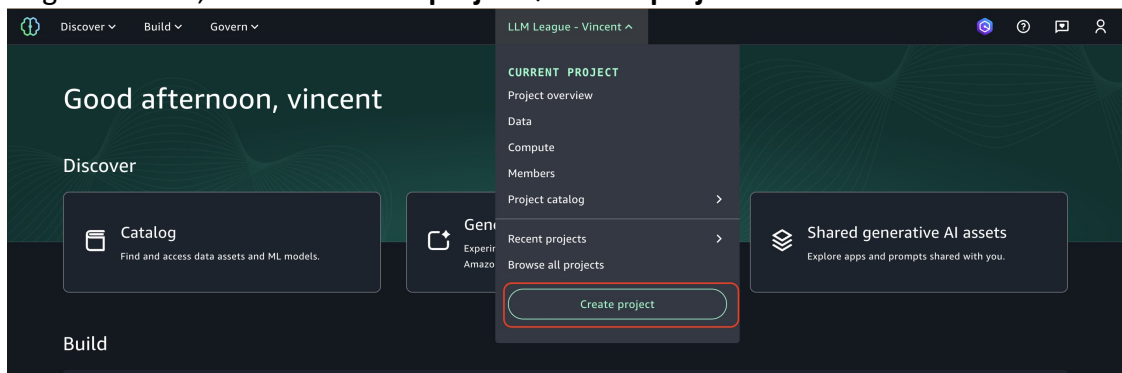
Step 1a: Log in to the SageMaker Unified Studio using the sponsoring account's credentials and create your league project profile

To get started with AWS LLM League as a sponsored participant, you log in to the SUS console using the IDC credentials provided in the invitation you received from the event coordinator

SUS domain link: https://dzd_3oa4gjrqrmyg7.sagemaker.us-east-1.on.aws/



After login into SUS, create on **select project**→ **create project**



Provide your project name in this naming convention → **LLM League - <your name>**

Discover Build Govern LLM League - Vincent

Home > Create project

Project name and description

Project name **Provide name for your project**

llm league - vince

Project name must be 1 - 64 characters. Valid characters are a-z, A-Z, 0-9, spaces, - (dash), and _ (underscore).

Description - optional

Share the business context or purpose of the project with other project members.

Characters: 0/2048

Project profile

Project profiles simplify project creation with predefined infrastructure.

Find project profile

LLM League Profile

Tooling Amazon Bedrock Chat Agent

Amazon Bedrock Knowledge Base + 5 more

Cancel Continue

At the review page, click “Continue”

Discover Build Govern LLM League - Vincent

Home > Create project

Create project

SageMaker Unified Studio projects are containers for code artifacts, data assets, workflows, and other AWS resources. Project members can collaborate in projects to build and deploy applications.

Step 1 Choose project name and profile Step 2 Customize blueprint parameters Step 3 Review selections

Project name and profile

Name	Description	Domain unit name	Profile name
llm league - vince	—	llm-league-unified-studio	LLM League Profile

Tooling

Configuration for the Tooling

Connection name default-connection

Connection provider CodeCommit

Branch name main

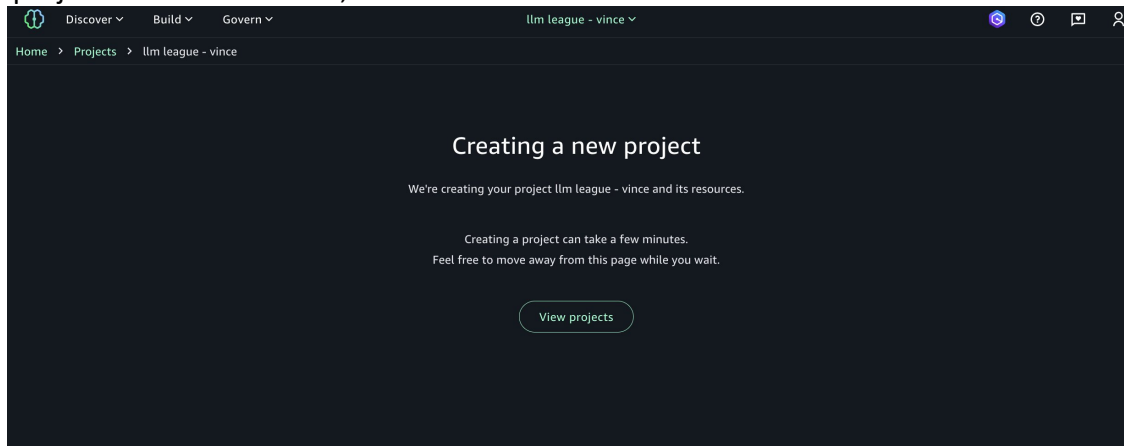
Retention

The retention (in days) for the CloudWatch log groups in this project. Leave empty to keep logs indefinitely.

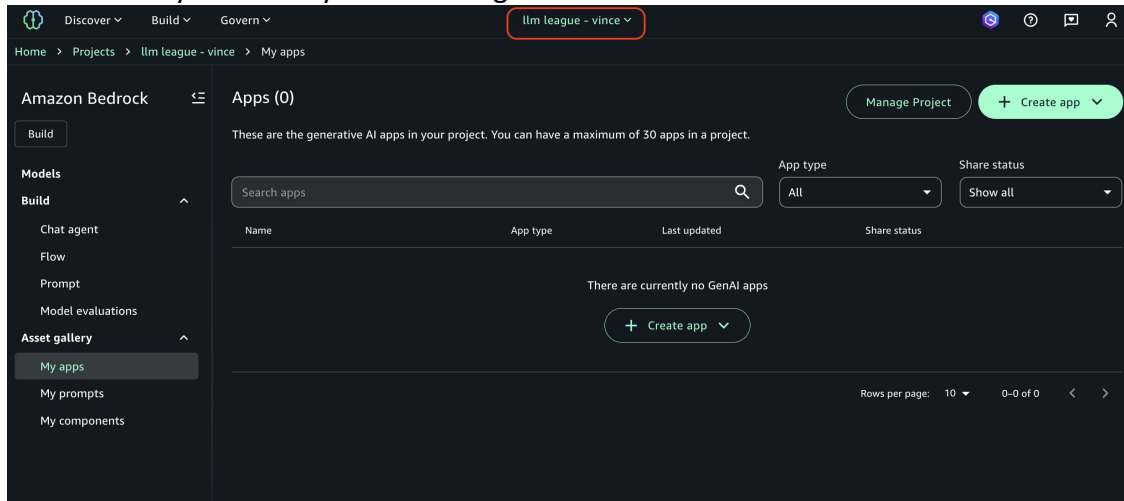
731

Cancel Previous Continue

Your project creation will start; this will take about **3 minutes**.

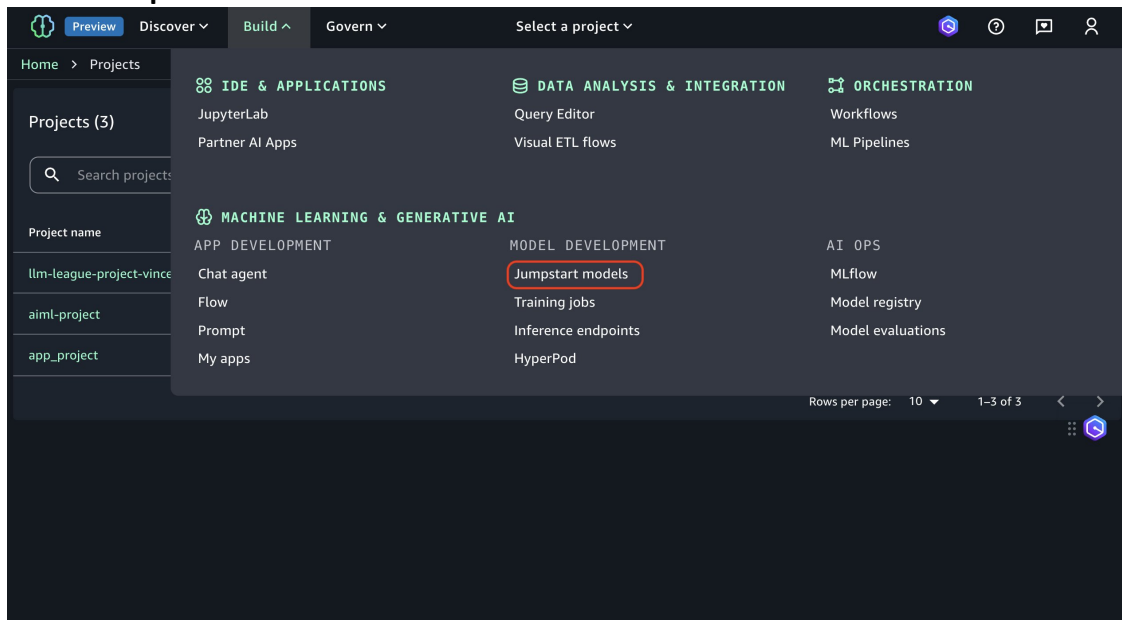


Once completed, you'll be redirected to the project details page. In the project selection dropdown list at the center, your project name will be reflected and selected. Congratulations! You are now ready to create your LLM League artefacts.

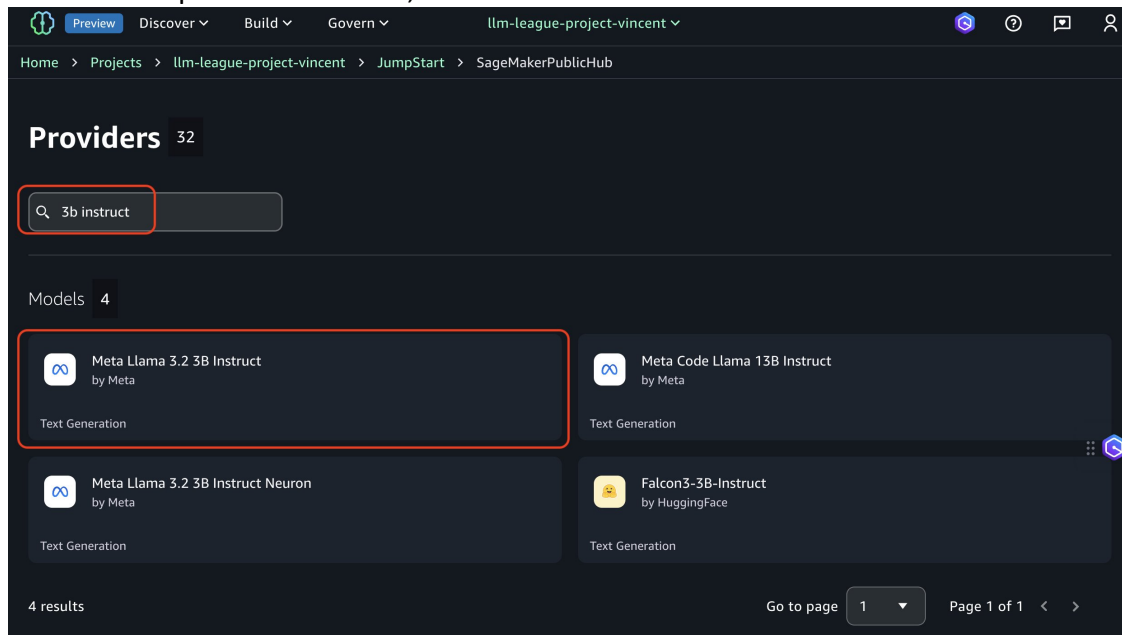


Step 2. Create your first training job using Amazon SageMaker JumpStart

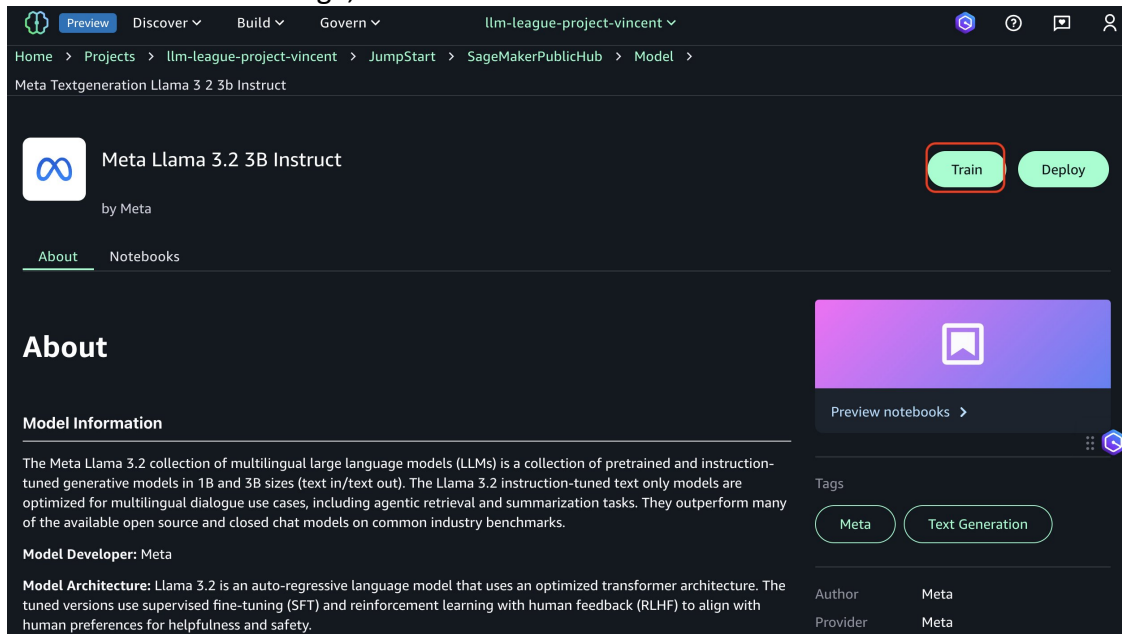
1. Inside Amazon SageMaker Studio's top navigation bar, click on **Build** and click on **"JumpStart Models"**:



2. Inside Jumpstart Model Hub, search for **"3b instruct"** and click on it:



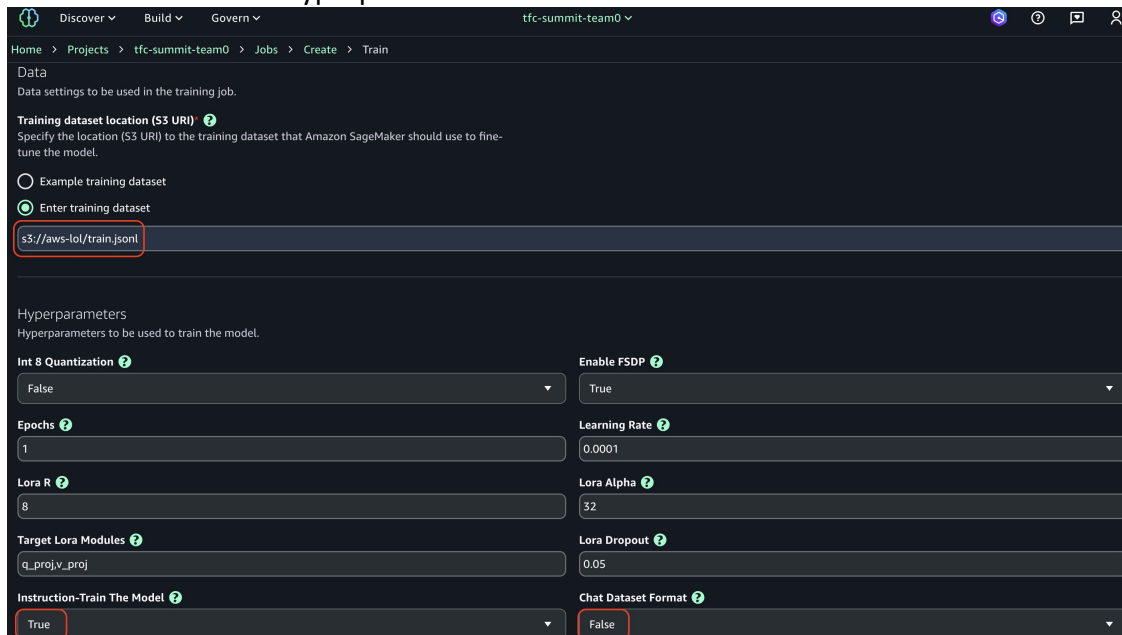
3. Inside Model Card Page, click on “Train” button:



4. This is the training configuration page! For your first fine-tuning job...

a. Choose the sample dataset made available to you

- s3://aws-lol/train.jsonl**
- Note: you can download and view details of sample data [here](#).
- Under hyperparameters, click ‘Show more’, then set **“Instruction-Train The Model” to True** and **“Chat Dataset Format” to False**. Keep the rest of the hyperparameters as default.



5. Scroll to the bottom of the page, **give your training job a name** then click on **“Submit”** button to kickstart the training process.

The screenshot shows the 'Create' page for a training job in Amazon SageMaker Studio. The page is titled 'llm-league-project-vincent' and has a navigation bar with 'Preview', 'Discover', 'Build', and 'Govern' tabs. The main content area is divided into sections: 'Output artifact location (S3 URI)', 'Security', 'Encryption', and 'Additional Information'. The 'Output artifact location' section has a radio button selected for 'SageMaker Unified Studio Default Bucket' and a text input field containing 's3://amazon-sagemaker-482018956800-us-east-1-2069e15435a0/dzd_andah6r1dxuoo7/5zkbcmjz9c7c7/dev/data/ml'. The 'Security' section has a radio button selected for 'Don't use encryption key'. The 'Additional Information' section has a text input field for 'Training Job Name' containing 'team1-vincent-demo1' and a '+ Add' button. At the bottom right, there are 'Submit' and 'Cancel' buttons. The 'Submit' button is highlighted with a red box.

6. Under Llama 3.2 Community License Agreement, Click on **“Accept”**:

The screenshot shows the 'Create' page for a training job in Amazon SageMaker Studio, with a modal dialog for the Llama 3.2 Community License Agreement. The modal contains the text of the license agreement and 'Accept' and 'Cancel' buttons. The 'Accept' button is highlighted with a red box. The background shows the same configuration options as the previous screenshot, but they are partially obscured by the modal.

7. Congratulations! Your first training job has started. Amazon SageMaker platform will now perform the training of the model on your behalf and create a new fine-tuned domain model. The training time depends on your training dataset and hyper parameters (i.e epoch). For the first model with the sample dataset, it will take **~12 minutes**.

The screenshot shows the AWS SageMaker console interface. At the top, there are navigation tabs: 'Preview', 'Discover', 'Build', and 'Govern'. The current page is 'team1-vincent-demo2c' under the 'Train' section. The job is labeled as a 'Training Job' with a green status indicator. A 'Stop' button is visible in the top right corner.

Property	Value
Status	Executing...
ARN	arn:aws:sagemaker:us-east-1:123456789012:training-job/arn:aws:sagemaker:us-east-1:123456789012:training-job/team1-vincent-demo2c
Base model	meta-textgeneration-llama-3-2-3b-instruct
Run time (seconds)	487
Created on	25/02/2025, 11:29:06
Modified on	25/02/2025, 11:39:20

Below the job details, there are tabs for 'Performance', 'Artifacts', 'Security', 'Hyperparameters', 'Configurations', 'Instances', and 'Tags'. The 'Performance' tab is selected, showing a message: 'No Performance. You don't have any Performance.'

8. The training job will happen in the cloud so you can choose to close the tab/window of your browser. When you're back, re-open studio and click on "Jobs→Training" to view the list of your training jobs.

The screenshot shows the 'Training Jobs' page in the AWS SageMaker console. The left sidebar contains a search bar and a filter by job type section with a checked 'Training' checkbox. The main content area displays a list of training jobs. The 'Training jobs' link in the 'MODEL DEVELOPMENT' section is highlighted with a red circle.

Category	Items
IDE & APPLICATIONS	JupyterLab, Partner AI Apps
DATA ANALYSIS & INTEGRATION	Query Editor, Visual ETL flows
ORCHESTRATION	Workflows, ML Pipelines
MACHINE LEARNING & GENERATIVE AI	APP DEVELOPMENT (Chat agent, Flow, Prompt, My apps), MODEL DEVELOPMENT (Jumpstart models, Training jobs , Inference endpoints, HyperPod), AI OPS (MLflow, Model registry, Model evaluations)

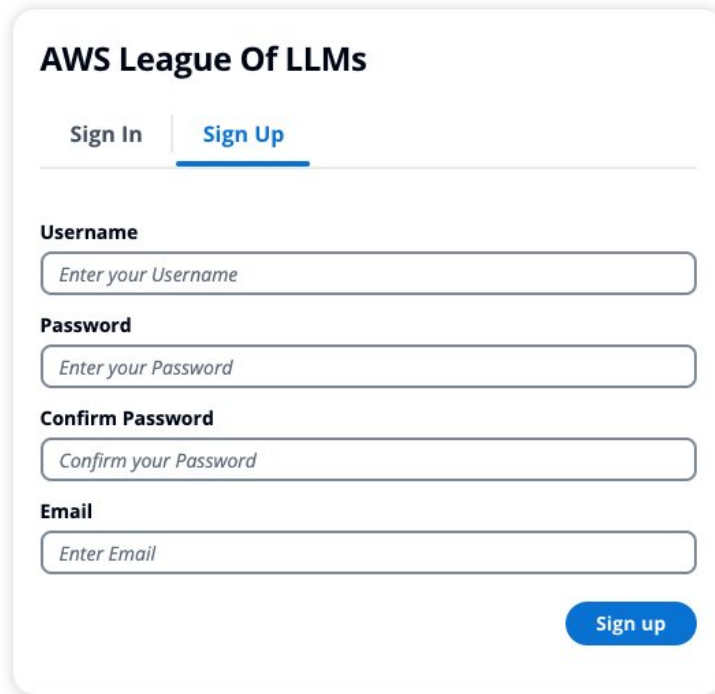
9. Once completed, the training job status will reflect as "Complete":

The screenshot shows the 'Training Jobs' page in the AWS SageMaker console. The left sidebar is the same as in the previous screenshot. The main content area displays a table of training jobs. The job 'team1-vincent-demo2c' is now listed with a status of 'Completed', which is highlighted with a red circle.

Name	Job type	Created on	Modified on	Created by	Status
team1-vincent-demo2c	Jumpstart training	Tue Feb 25 2025 11:29:06 ...	Tue Feb 25 2025 11:39:42 ...	--	Completed

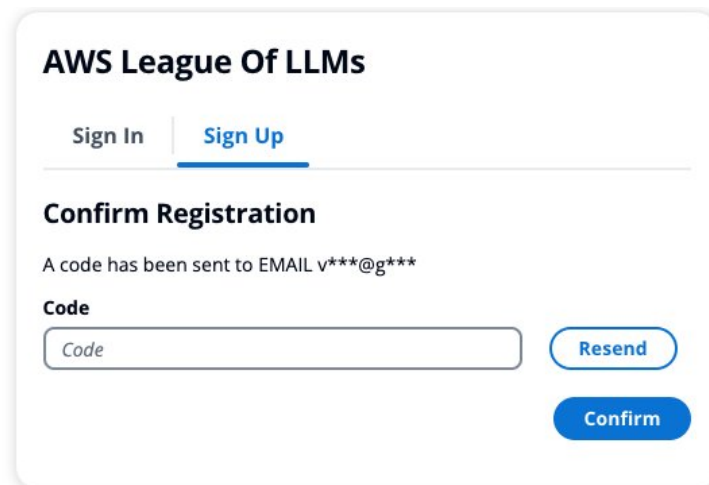
Step 5a. Log in to AWS LLM League portal and update profile

1. Open a new tab in your browser and go to <https://d1lojwke7j5vfp.cloudfront.net> to open up AWS's LLM League portal. Click **"Sign Up"**



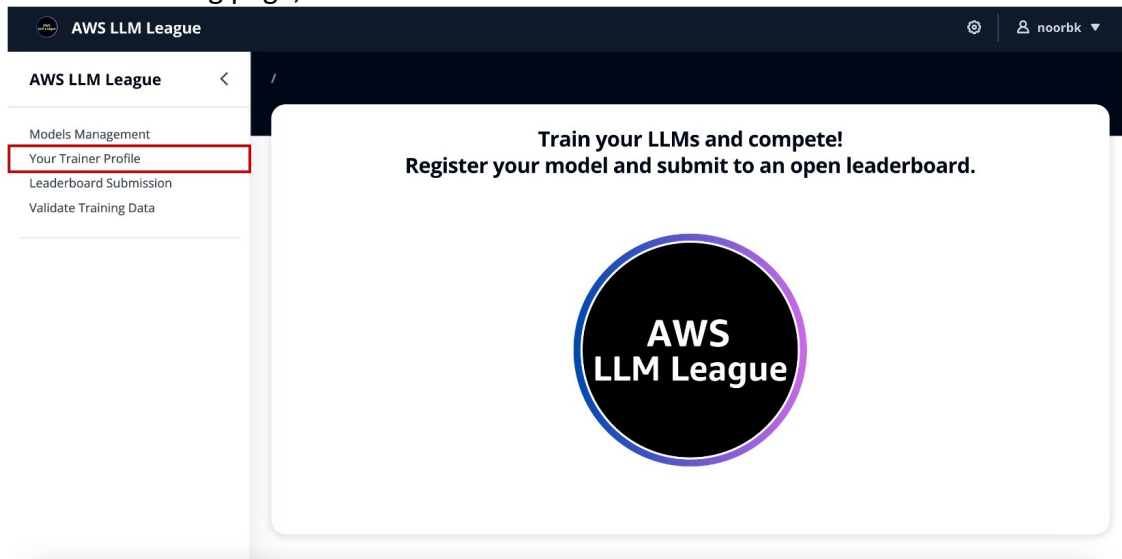
The image shows a web form titled "AWS League Of LLMs". At the top, there are two tabs: "Sign In" and "Sign Up", with "Sign Up" being the active tab. Below the tabs, there are four input fields: "Username" with placeholder text "Enter your Username", "Password" with placeholder text "Enter your Password", "Confirm Password" with placeholder text "Confirm your Password", and "Email" with placeholder text "Enter Email". At the bottom right of the form is a blue button labeled "Sign up".

2. Provide a username, password, email and click **"Sign Up"**. An OTP will be sent to your email. Enter it and login to your newly created account

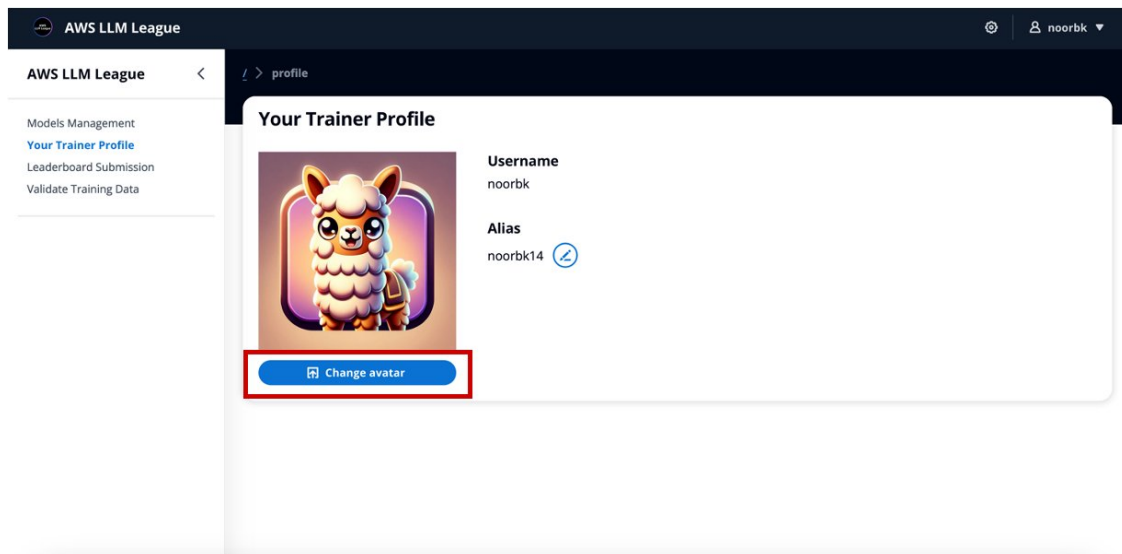


The image shows a web form titled "AWS League Of LLMs". At the top, there are two tabs: "Sign In" and "Sign Up", with "Sign Up" being the active tab. Below the tabs, the section is titled "Confirm Registration". It states "A code has been sent to EMAIL v***@g***". There is a "Code" input field with placeholder text "Code". To the right of the input field are two buttons: "Resend" and "Confirm".

3. At the landing page, click on “Your Trainer Profile”:



4. At the trainer profile page:
a. Optionally edit your league alias
b. Select an avatar



Step 5b. Register Model

1. Next, we're ready to register our model! First, go back the Training Jobs inside Amazon SageMaker Studio, copy the name of your "training job".

The screenshot shows the Amazon SageMaker Studio interface. At the top, there's a navigation bar with tabs like 'Preview', 'Discover', 'Build', and 'Govern'. Below this, a breadcrumb trail reads 'Home > Projects > llm-league-project-vincent > Jobs > Train > Noor-Model2'. The main header area displays 'Noor-Model2' with a 'Training Job' badge and a 'Deploy' button. Below this, a table provides details about the job:

Status	ARN	Base model
Completed	arn:aws:sagemaker:us-east-1:123456789012:job-llm-league-project-vincent-noor-model2	meta-textgeneration-llama-3-2-3b-instruct
Run time (seconds)	Created on	Modified on
492	25/02/2025, 11:29:06	25/02/2025, 11:39:42

Below the table, there are tabs for 'Performance', 'Artifacts', 'Security', 'Hyperparameters', 'Configurations', 'Instances', and 'Tags'. The 'Performance' tab is active, showing a table with the following data:

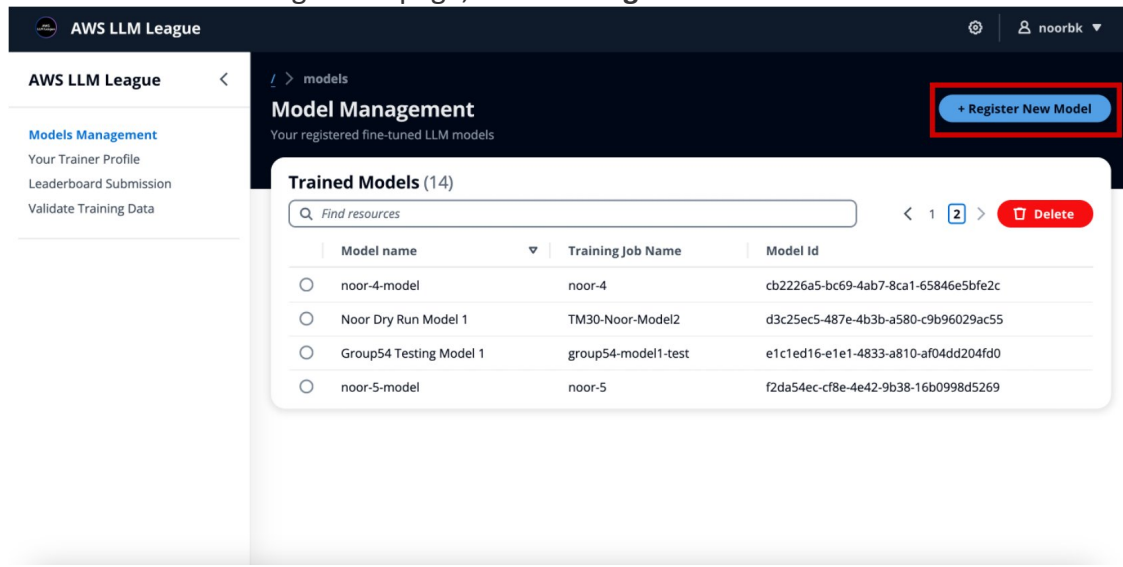
Name	Value
huggingface-textgeneration:eval-loss	0.6901000142097473
huggingface-textgeneration:eval-ppl	1.993899941444397
huggingface-textgeneration:train-loss	0.777300001907349

2. At the landing page, click on "Models Management" in the left navigation menu:

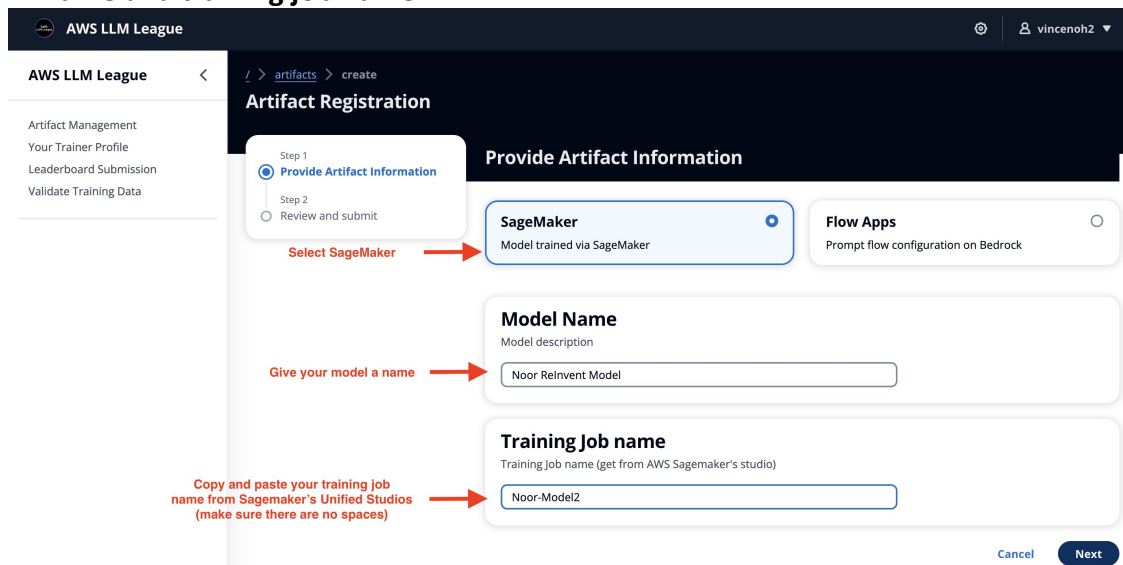
The screenshot shows the AWS LLM League 'Models Management' page. The left navigation menu has 'Models Management' highlighted. The main content area is titled 'Model Management' and shows 'Your registered fine-tuned LLM models'. A 'Trained Models (14)' table is displayed, listing models with their names, training job names, and model IDs. The table has a search bar and a 'Delete' button.

Model name	Training Job Name	Model Id
noor-4-model	noor-4	cb2226a5-bc69-4ab7-8ca1-65846e5bfe2c
Noor Dry Run Model 1	TM30-Noor-Model2	d3c25ec5-487e-4b3b-a580-c9b96029ac55
Group54 Testing Model 1	group54-model1-test	e1c1ed16-e1e1-4833-a810-af04dd204fd0
noor-5-model	noor-5	f2da54ec-cf8e-4e42-9b38-16b0998d5269

3. At the model management page, click on “register new model”:



4. Copy and paste training job name (*taken from Amazon SageMaker studio*) into model name and training job name.



5. Review your model and click **“Register Model”**:

AWS LLM League

Models Management
Your Trainer Profile
Leaderboard Submission
Validate Training Data

Model Registration

Step 1
Provide Model Information

Step 2
Review and submit

Review and submit

Model Registration [Edit](#)

Model name
Noor Relnvent Model

Training job name
Noor-Model2

[Cancel](#) [Previous](#) [Register Model](#)

6. You'll be navigated back to the model management page, and the new model will be reflected in the list:

AWS LLM League

Models Management
Your Trainer Profile
Leaderboard Submission
Validate Training Data

Model Management [+ Register New Model](#)

Your registered fine-tuned LLM models

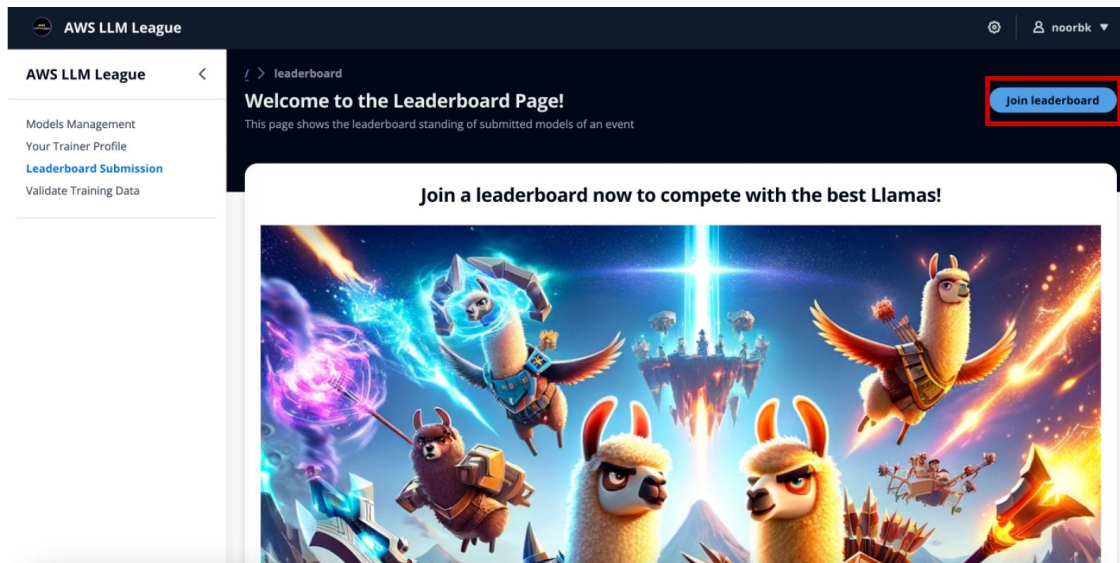
Trained Models (15)

[Delete](#)

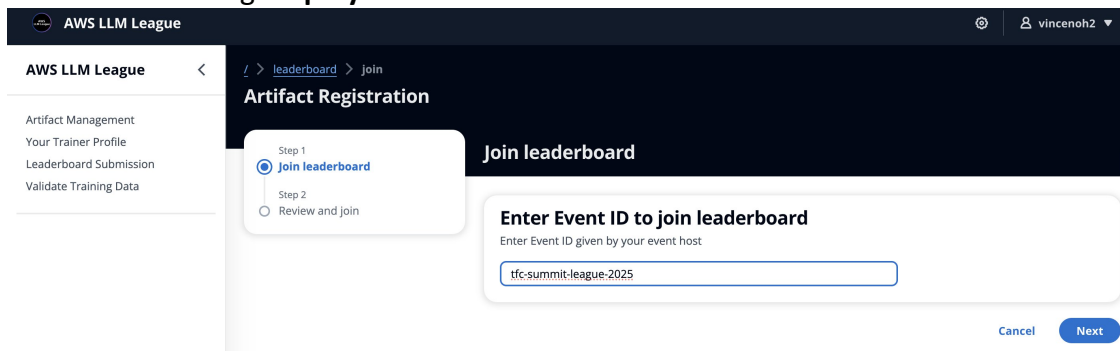
	Model name	Training Job Name	Model Id
☐	noor-6-model	noor-6	b7d64eef-3f7e-4271-8c7b-c1222ad547a
☐	noor-4-model	noor-4	cb2226a5-bc69-4ab7-8ca1-65846e5bfe2c
☐	Noor Dry Run Model 1	TM30-Noor-Model2	d3c25ec5-487e-4b3b-a580-c9b96029ac55
☐	Group54 Testing Model 1	group54-model1-test	e1c1ed16-e1e1-4833-a810-af04dd204fd0
☐	noor-5-model	noor-5	f2da54ec-cf8e-4e42-9b38-16b0998d5269

Step 6. Join Competition Leaderboard and submit model

1. On the left navigation menu, click on “Leaderboard Submission”. Next, click on “Join leaderboard”:



2. In the next page, enter Event ID provided by your organizer to join the leaderboard -
→ Student League: **polycc-2025-student**
→ Lecturer League: **polycc-2025-lecturer**



3. Next, you'll be brought to the leaderboard of your AWS LLM League's competition. Now that you're in the league, you're all set to submit your model for the competition!

AWS LLM League

Models Management

Your Trainer Profile

Leaderboard Submission

Validate Training Data

leaderboard

STS United LOL League Info

STS United - League of LLMs (LoL) Gamified Learning for WWPS ANZ Tech Team

Total Trainers: 17

+ Submit your model

Leave leaderboard

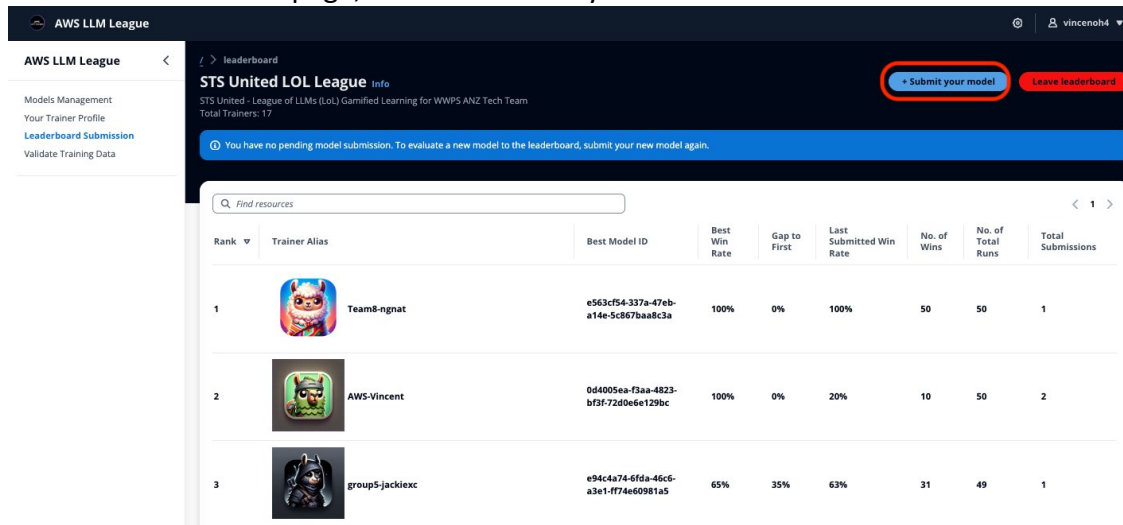
You have no pending model submission. To evaluate a new model to the leaderboard, submit your new model again.

Find resources

Rank	Trainer Alias	Best Model ID	Best Win Rate	Gap to First	Last Submitted Win Rate	No. of Wins	No. of Total Runs	Total Submissions
1	 Team8-nginx	e563cf54-337a-47eb-a14e-5c867baa8c3a	100%	0%	100%	50	50	1
2	 AWS-Vincent	0d4005ea-f3aa-4823-bf3f-72d0e6e129bc	100%	0%	20%	10	50	2
3	 group5-jackiexc	e94c4a74-6fda-46c6-a3e1-ff74e60981a5	65%	35%	63%	31	49	1
4	 Team6-Jake	1b1fa6da-b30c-4057-a685-e0b8c7e8b79f	59%	41%	59%	29	49	1
5	 Team3-Moha	808aac73-96aa-42b7-ba36-1bf0af97c61d	34%	66%	26%	13	49	1
6	 Group10-Vijay	a8a49d11-7f5e-4c22-9f28-a6370f584781	30%	70%	24%	12	49	1
7	 Team0-Emma	8849b100-d364-4623-b6a2-fbad29775f42	24%	76%	24%	12	49	1
8	ebbd3135-9067-412e-b350-696ba78615bd	61522379-fb56-4f4d-9892-ade37d86a49b	24%	76%	24%	12	49	1

Step 7. Submit model to AWS LLM League's Leaderboard

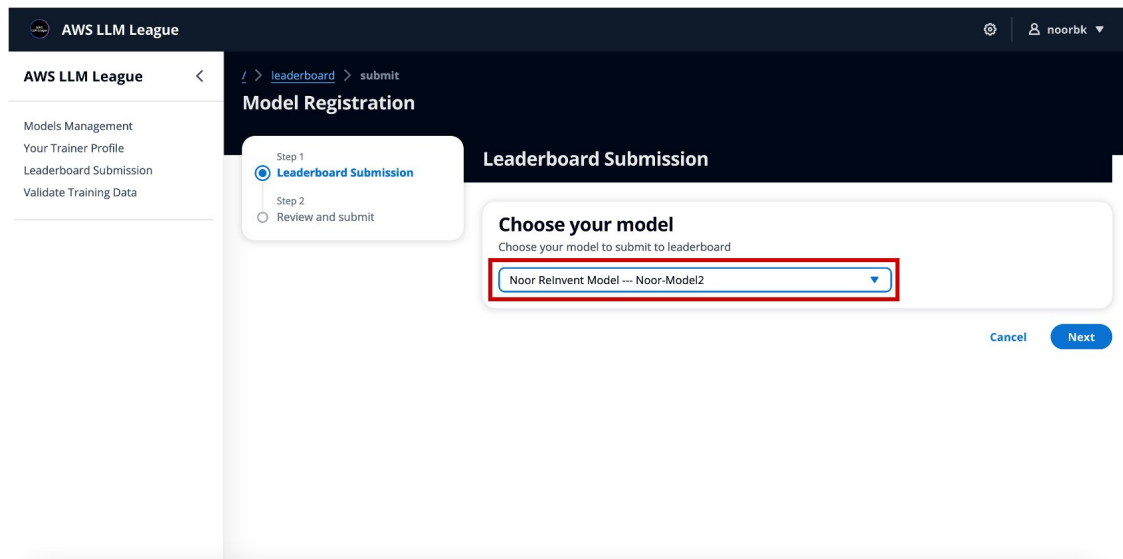
1. In the leaderboard page, click on "Submit your model":



The screenshot shows the AWS LLM League Leaderboard page. The header includes the AWS LLM League logo and a user profile 'vincenoh4'. The main content area displays the 'STS United LOL League' info, including 'Total Trainers: 17'. A blue banner indicates 'You have no pending model submission. To evaluate a new model to the leaderboard, submit your new model again.' Below this is a table of top performers.

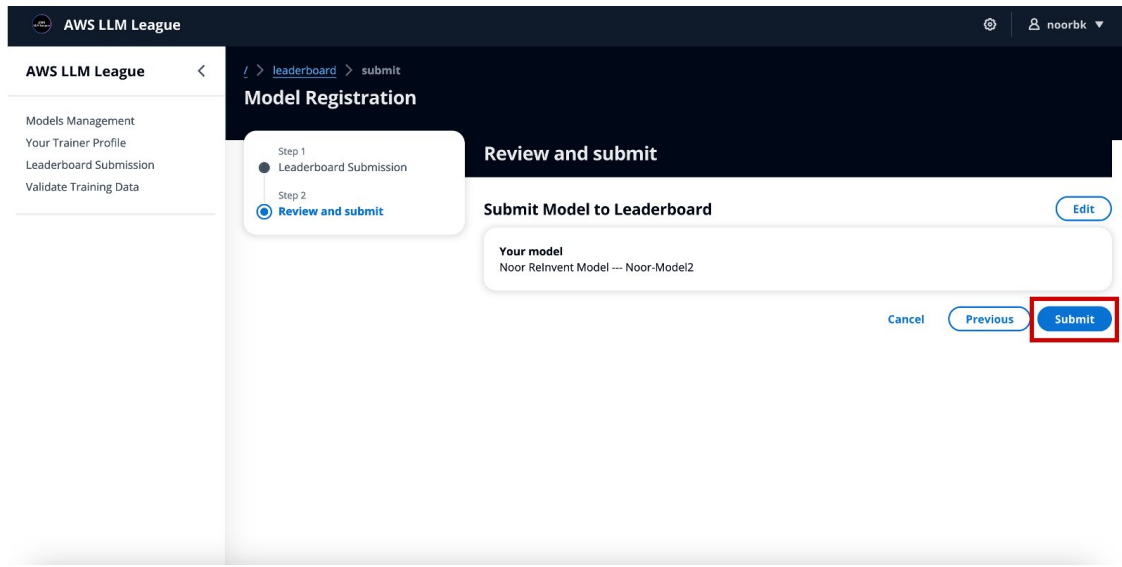
Rank	Trainer Alias	Best Model ID	Best Win Rate	Gap to First	Last Submitted Win Rate	No. of Wins	No. of Total Runs	Total Submissions
1	Team8-ngnat	e563cf54-337a-47eb-a14e-5c867baa8c3a	100%	0%	100%	50	50	1
2	AWS-Vincent	0d4005ea-f3aa-4823-bf3f-72d0e6e120bc	100%	0%	20%	10	50	2
3	group5-jackiexc	e94c4a74-6fda-46c6-a3e1-f774e60981a5	65%	35%	63%	31	49	1

2. Select the model to submit and click on "Next":



The screenshot shows the AWS LLM League Model Registration page. The header includes the AWS LLM League logo and a user profile 'noorbk'. The main content area displays the 'Model Registration' section, which includes a 'Leaderboard Submission' step indicator. Below this is a 'Choose your model' dropdown menu with 'Noor Reinvent Model --- Noor-Model2' selected. A red box highlights the dropdown menu.

3. Review submission details and click “Submit”:



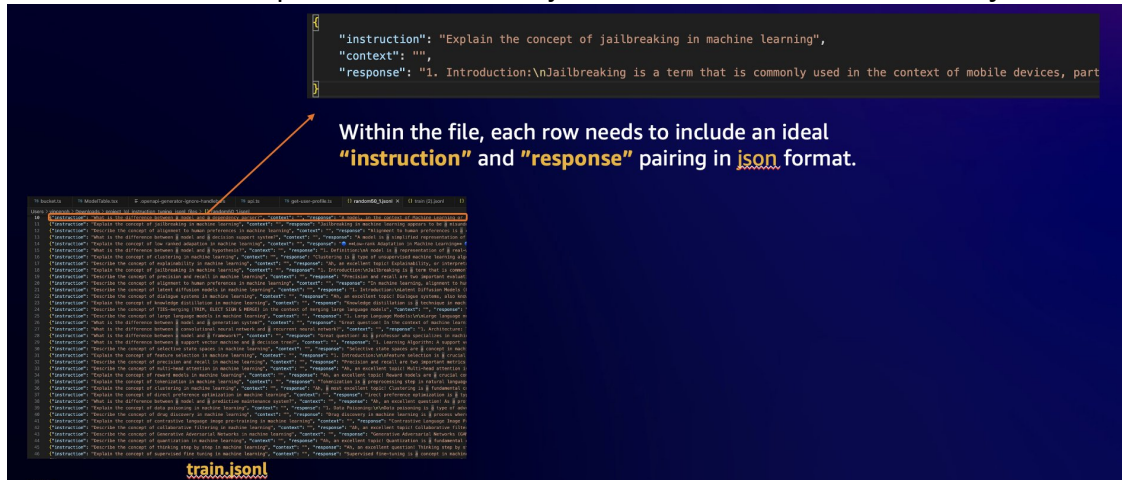
You'll be brought back to the leaderboard page. In about **15 minutes**, your model's result will be reflected in the leaderboard. Congratulations! You have successfully submitted your model.

(Post Workshop) Step 7. Tweak Model and re-submit new models iteratively to achieve better rankings in the leaderboard

1. Prepare higher volume or higher quality data set:

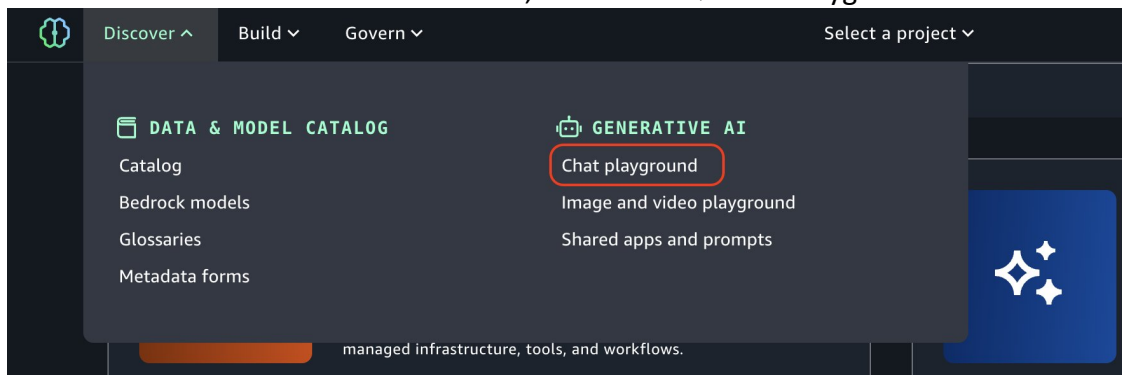
a. Manual Curation -

i. Prepare the data in the .jsonl format and save file as **train.jsonl**



b. Generate synthetic data in Unified's Studio Playground

i. Within Unified Studios, Go to Build→ Chat Playground

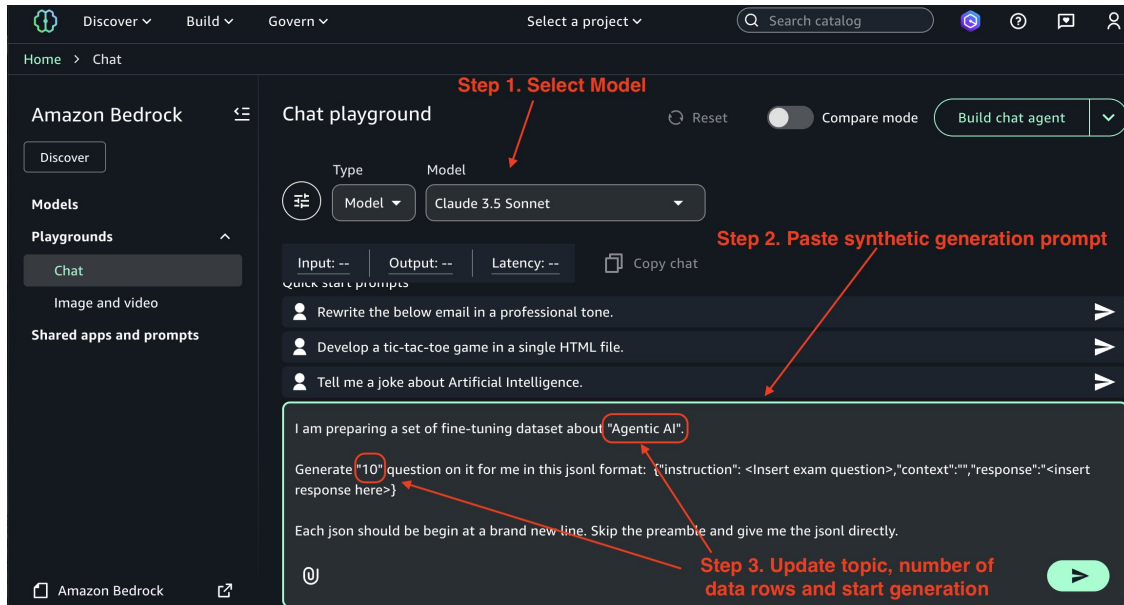


ii. Select model, paste in the prompt below and update prompt and number of rows

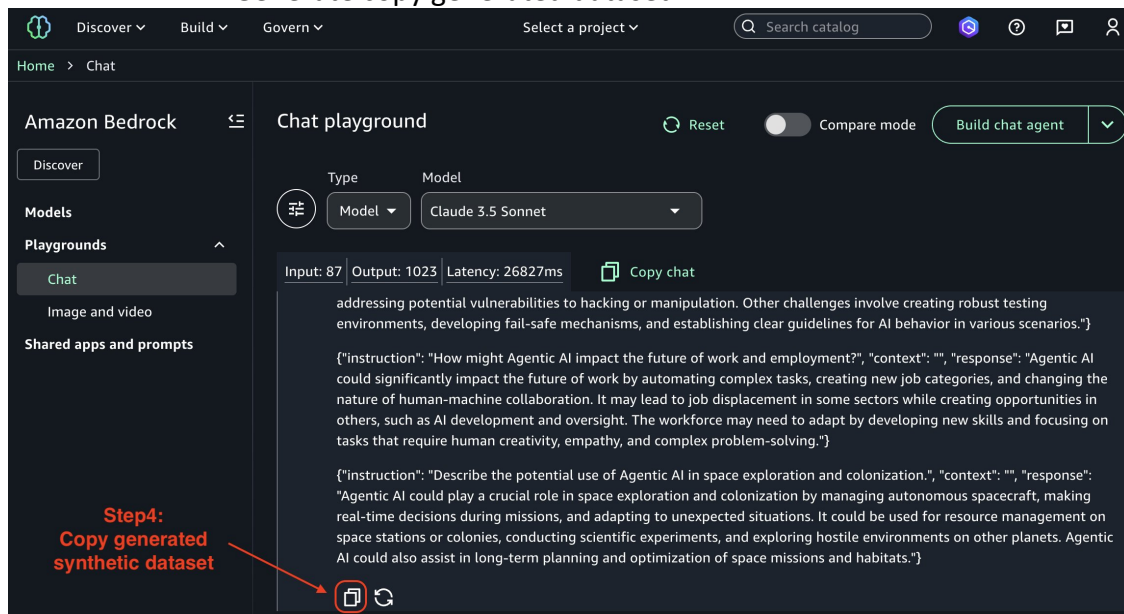
I am preparing a set of fine-tuning dataset about "Agentic AI".

Generate "10" question on it for me in this json format: {"instruction": <Insert exam question> "context": "" "response": <insert response here>}

Each json should be begin at a brand new line. Skip the preamble and give me the jsonl directly.



i. Generate copy generated dataset



b. Validate dataset

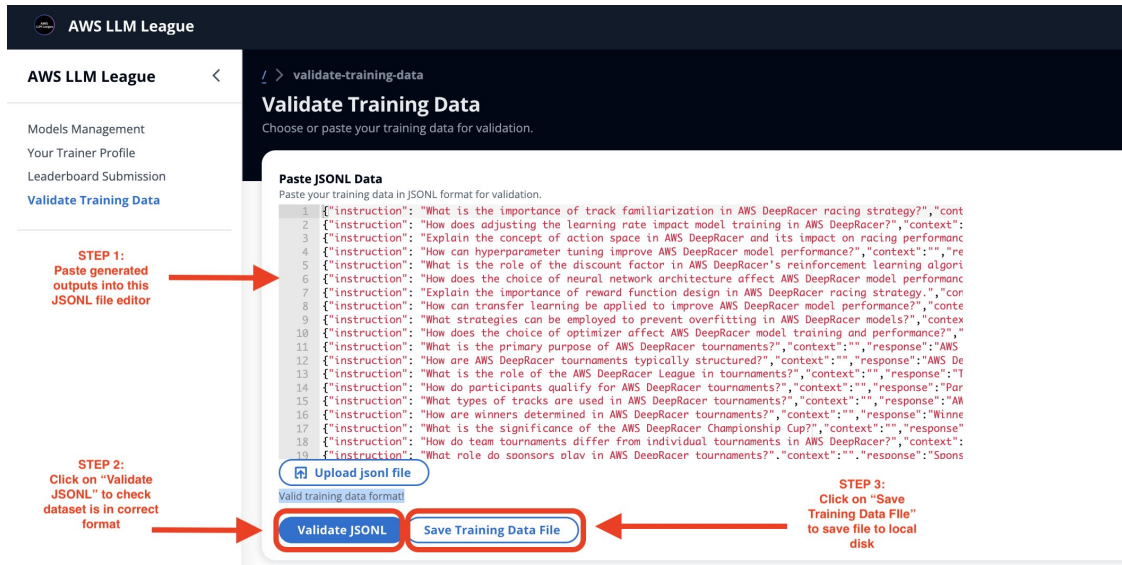
i. Copy the output to a code editor:

<https://d1lojwke7j5vfp.cloudfront.net/validate-training-data>

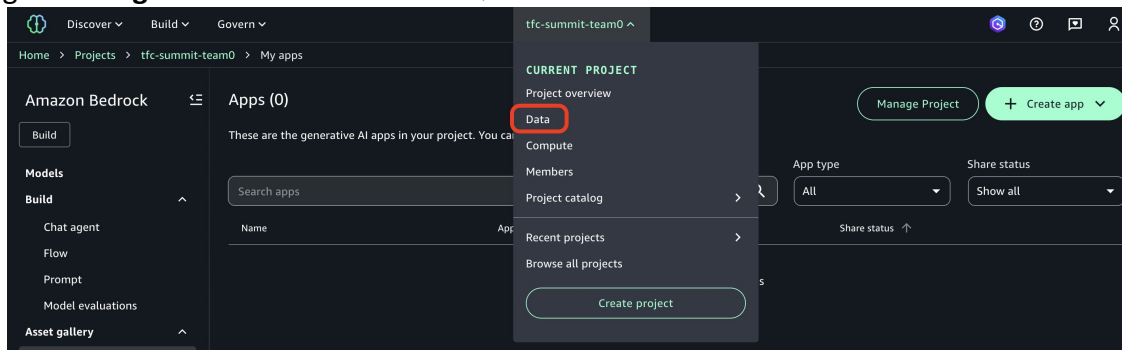
ii. Note: You need to have at least **50 data rows** in your dataset

iii. Click on validate button to check validity of rows

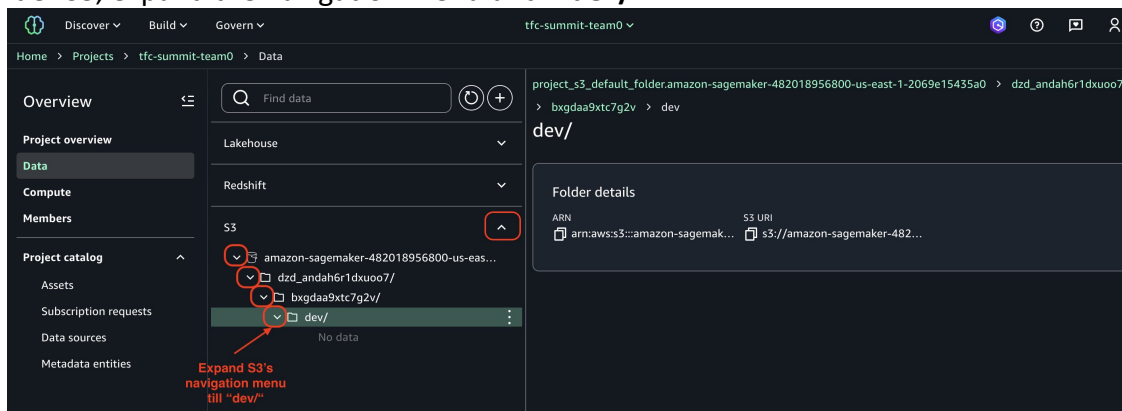
iv. Click on save file which will download the file named **train.jsonl** into your local disk



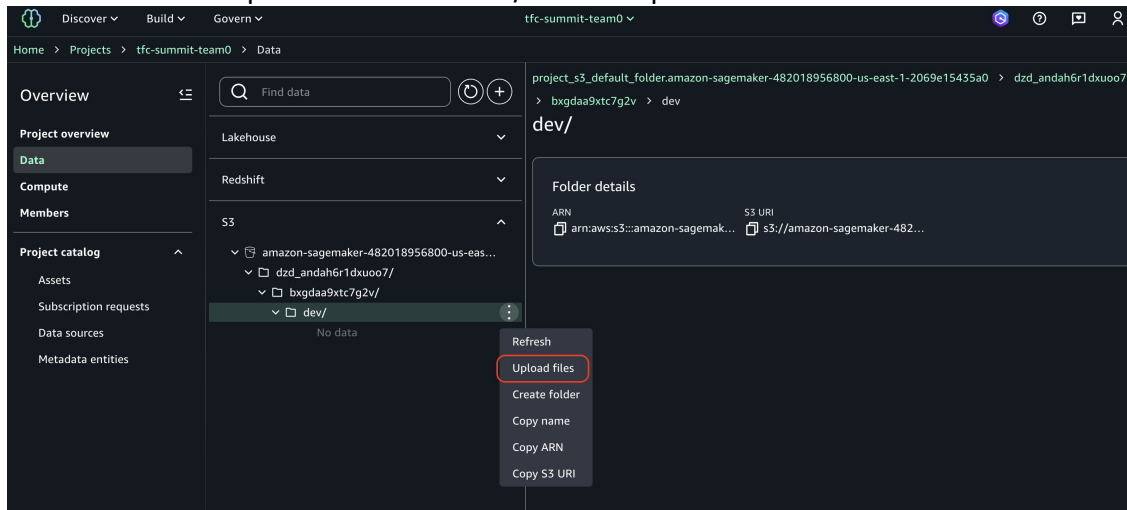
2. Once the file is ready, navigate to AWS Console via Isengard and head over to Amazon S3. Navigate to **SageMaker Unified Studios** → **Data**



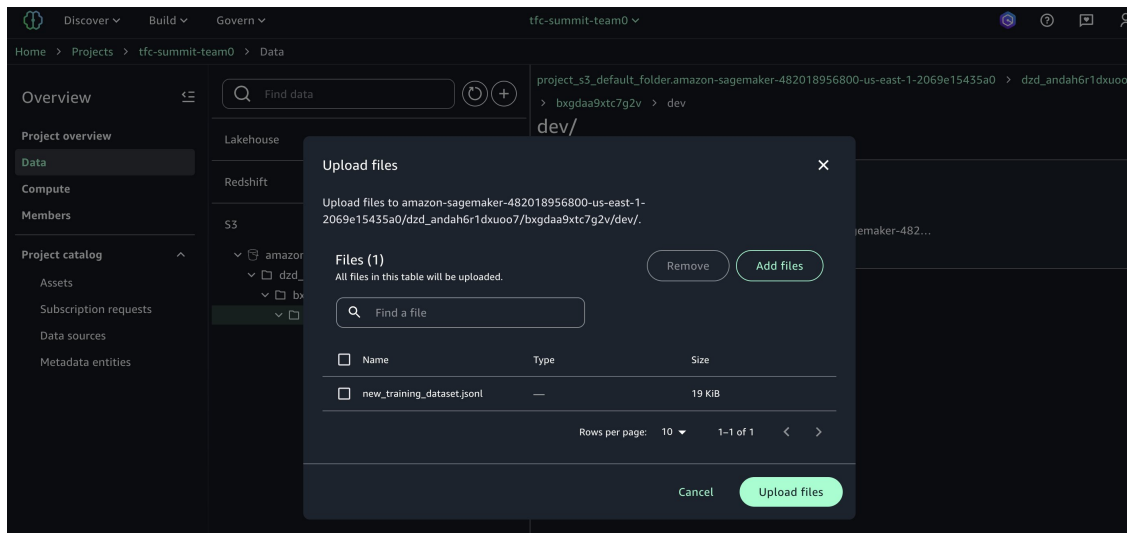
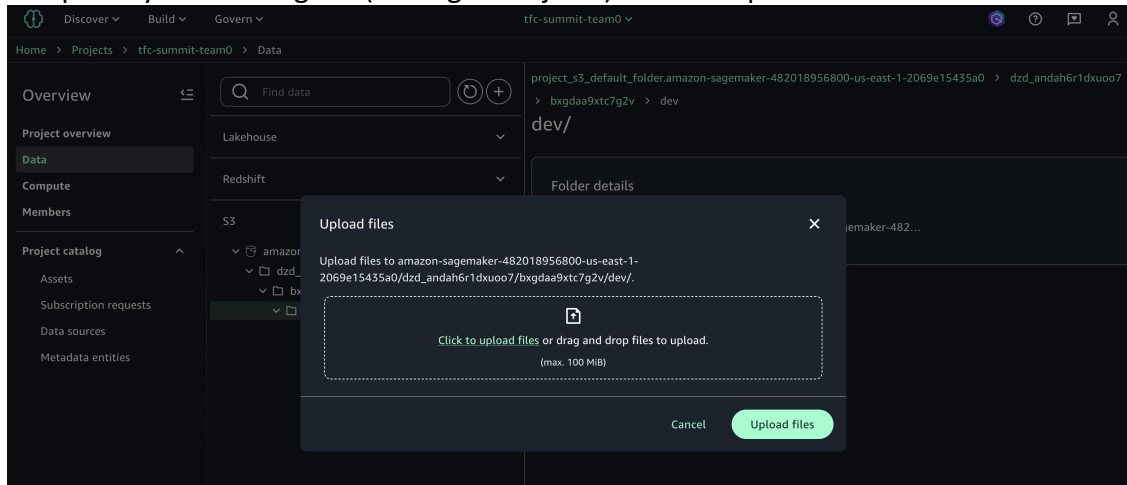
3. Under S3, expand the navigation menu until **"dev/"**



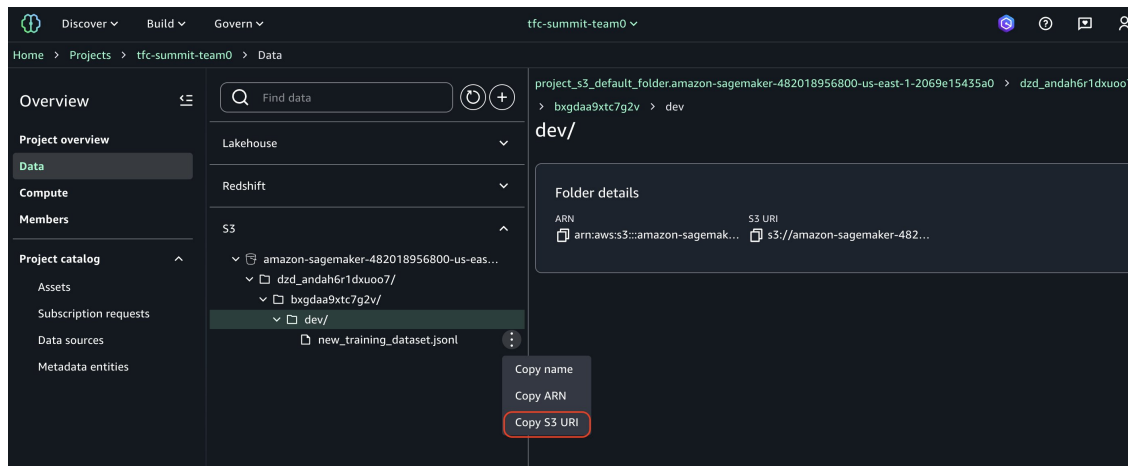
4. Click into the triple dot icon beside “/dev” → Upload files



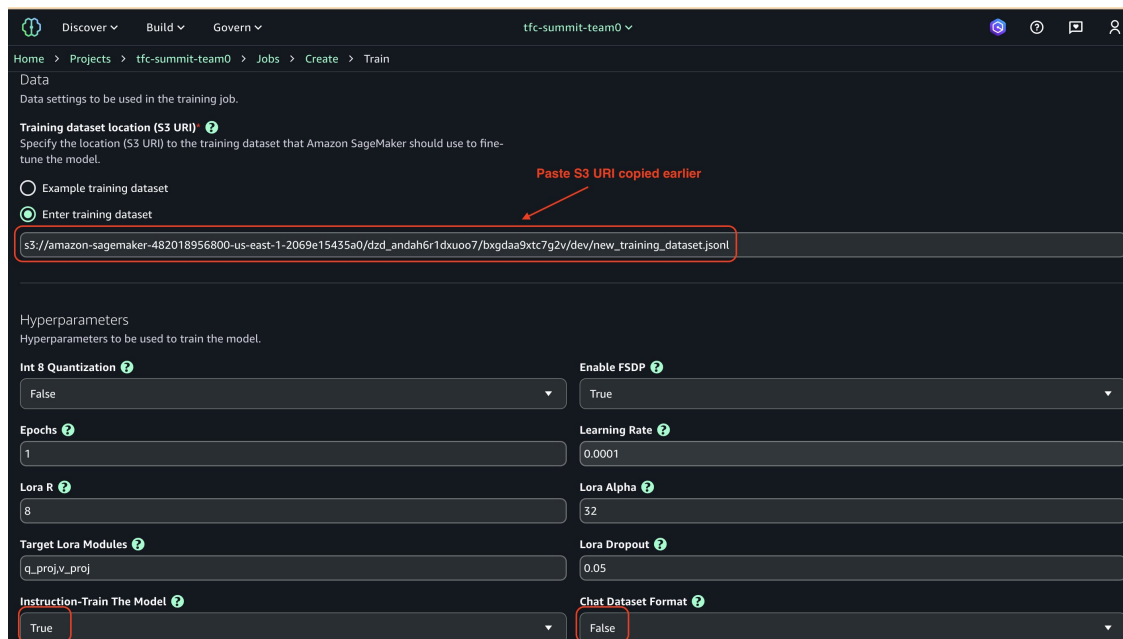
5. Upload your training file (ending with .jsonl) into the upload box.



6. Beside your newly uploaded dataset → Click on the “triple dot” icon → Click on “Copy S3 URI”:



7. (REPEAT of Step 2) Go to Amazon SageMaker studio → JumpStart → Search for “llama 3.2 3B” -> Create training jobs with your new dataset location and your set of hyperparameters.



8. Scroll down and give training job a new name and click on submit:

Home > Projects > llm-league-project-vincent > Jobs > Create > Train

Output artifact location (S3 URI)*
Specify the location (S3 URI) where Amazon SageMaker should upload the fine-tuned model.

☒ SageMaker Unified Studio Default Bucket
☐ Enter output artifact location

s3://amazon-sagemaker-482018956800-us-east-1-2069e15435a0/dzd_andah6r1dxuoo7/5zkbcmjz9c7c7/dev/data/ml

Security
Security settings to be used in the training job.

Encryption*
Specify the encryption keys to secure your data.

☒ Don't use encryption key

Additional Information
Name and tags for the training job.

Training Job Name*
team1-vincent-demo1

Tags
Tag keys will be automatically prefixed with "ProjectUserTag".

+ Add

Submit Cancel

8. Repeat **Step 5b. Register Model** section to register model and submit model to leaderboard.

(Post Workshop) Step 8. Check remaining hours left on your team's account

1. Go to <https://d2fn81uk6ufosq.cloudfront.net/> to open up training hours dashboard.
 - a. Your available training time will be reflected in **hours unit and seconds unit**.
 - b. Note: Your training time will only be reflected after a training job has been created.

AWS LLM League Training Time Tracker

Group No.	Training Time (hours)	Training Time (seconds)
group51	29.88	107559