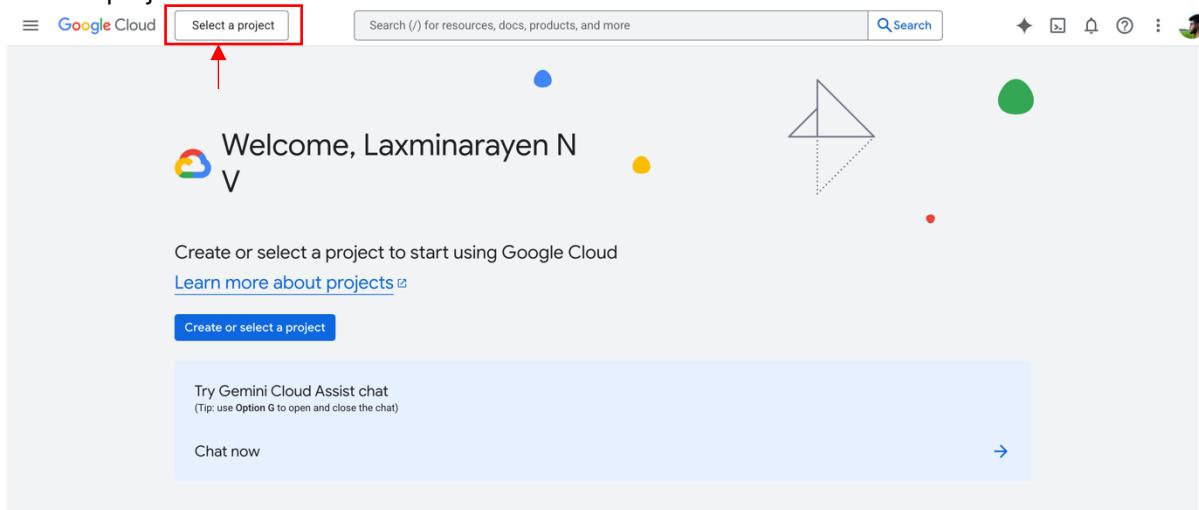


# Deploying in GCP

Go to your [console](#)

## 1. Creating new Project:

Select a project

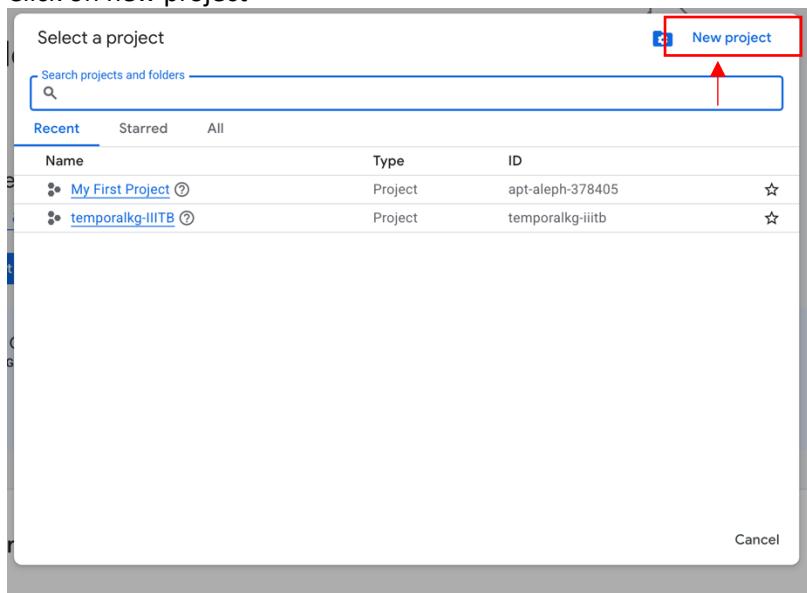


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Products



Click on new project



Give it a name and create

## New Project

You have 23 projects remaining in your quota. Request an increase or delete projects. [Learn more](#)

[Manage Quotas](#)

---

Project name \*  (?)

Project ID: rich-tome-477706-n9. It cannot be changed later. [Edit](#)

---

Location \*  No organization [Browse](#)

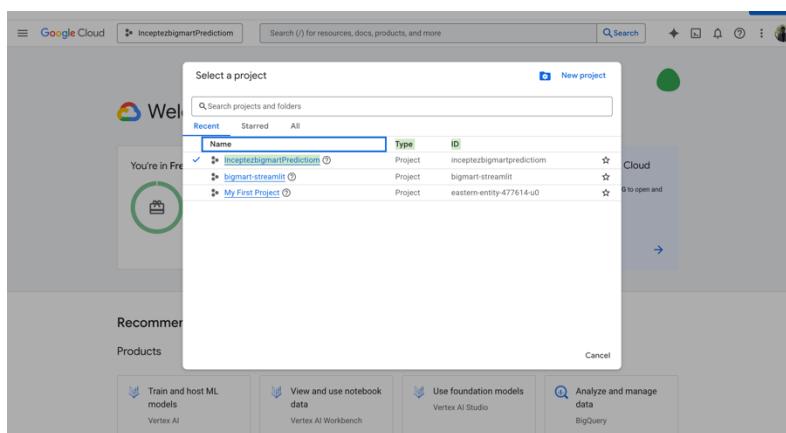
Parent organization or folder

---

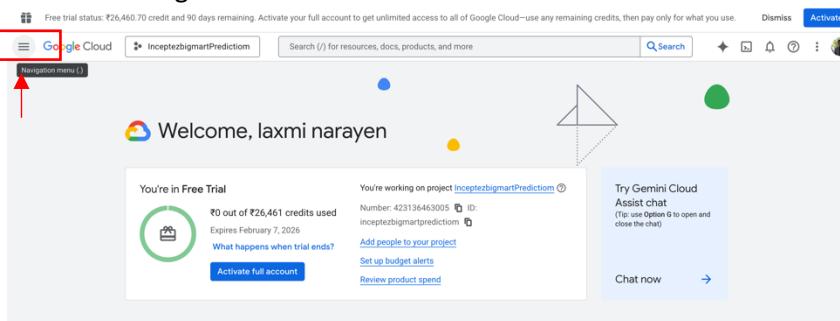
[Create](#) [Cancel](#)

## **2. Activate Services for your project...**

Once created select the project from the list of projects



[Go to the navigation menu...](#)



Recommended based on your interest in [Data, AI/ML](#) ▾

## Go to API & services from the drop-down menu

The screenshot shows the Google Cloud console interface. At the top, there's a banner for a free trial and a search bar. On the left, the navigation menu is open, with 'APIs & Services' selected and highlighted with a red box. Below the menu, several service options like Vertex AI, Compute Engine, and Kubernetes Engine are listed. In the center, there's a section titled 'Enabled APIs & services' with a button labeled '+ Enable APIs and services'. At the bottom, there are links to 'View all products' and a URL.

## Go to Enable APIs and Services and enable

The screenshot shows the Google Cloud API library page for a specific project. The left sidebar has 'Enabled APIs & services' selected. In the main area, there are three charts: 'Traffic', 'Errors', and 'Median latency'. Above the charts, there's a prominent blue button labeled '+ Enable APIs and services' with a red box around it. An arrow points upwards towards this button. At the bottom, there's a URL.

## “Cloud Run Admin API” and “Cloud Build API”

The screenshot shows two side-by-side product details pages. On the left is the 'Cloud Run Admin API' page, which includes sections for 'Overview', 'Additional details', and 'Tutorials and documentation'. A red box highlights the 'Enable' button. On the right is the 'Cloud Build API' page, which also has an 'Enable' button highlighted with a red box. Both pages show standard product information like type, last update, and category.

### 3. Deploy it from Github (Please note you need to have your project uploaded in github like this: <https://github.com/Laxminarayen/Streamlit-Inceptez25>)

Search for cloud run and go to cloud run

The screenshot shows the Google Cloud search results for 'cloud run functions'. The first result, 'Cloud Run' (Product: Fully managed application platform), is highlighted with a red box. Below it are other results like 'Cloud Run functions' and 'What is Cloud Run'.

On the cloud run dashboard click on Connect Repo

The screenshot shows the Google Cloud Run dashboard under the 'Services' tab. The 'Deploy container' and 'Connect repo' buttons are visible, with 'Connect repo' highlighted by a red box.

On the Create service tab.. Select "Setup with Cloud Build"

The screenshot shows the 'Create service' dialog. Under the 'Configure' section, there is a 'Set up with Cloud Build' button highlighted with a red box. Other options include 'Deploy one revision from an existing container image' and 'Continuously deploy from a repository (source or function)'.

You will see authorize github and install cloud build or something select that and install cloud build only on selected repositories say “Selected repositories and only do select that repo where the code is”

The screenshot shows the Google Cloud Platform interface. On the left, there's a sidebar with various services like Google Cloud, InceptezbigmartPrediction, and cloud run. Under 'Services', 'Cloud Run' is selected. A 'Create service' dialog is open, showing options for 'Deploy one revision from an existing container image' or 'Continuously repository (see function)'. Below this is a 'Set up with Cloud Build' button.

The main area shows a 'Configure' section with 'Service name \*' set to 'InceptezbigmartPrediction' and 'Region \*' set to 'europe-west1 (Belgium)'. An 'Endpoint URL' is also provided: <https://service-name-423136463005.europe-west1.run.app>.

On the right, a 'Set up with Cloud Build' wizard is displayed:

- Step 1: Source repository**: Shows 'Repository Provider' set to GitHub. A large blue button says 'Authorize and install cloud Build'. Below it is a note: 'With continuous deployment powered by Cloud Build, changes to your source repository are automatically built into container images in Artifact Registry and deployed to Cloud Run.' It also states: 'Your code should listen for HTTP requests on PORT. Your repository must include a Dockerfile or source code in Go, Node.js, Python, Java, .NET Core or Ruby in order to be built into a container image.'
- Step 2: Build Configuration**: Shows a 'Repository access' section. Under 'All repositories', there's a note: 'This applies to all current and future repositories owned by the resource owner. Also includes public repositories (read-only).' Under 'Only select repositories', a dropdown menu is open, showing 'Select repositories'. A search bar is present, and a list of repositories is shown:
  - Laxminarayen/AI-Engineering
  - Laxminarayen/AMLD-24
  - Laxminarayen/article-resources
  - Laxminarayen/automi-gs
  - Laxminarayen/avatar-research
  - Laxminarayen/aws-cli
  - Laxminarayen/Basic-LinearReg-R

Then select I Understand and click “Next”

The screenshot shows the 'Set up with Cloud Build' step again. The 'Source repository' section now has a checked checkbox labeled 'I understand that GitHub content for the selected repositories will be transferred to this GCP project to provide the connected service'. Below this, a note explains: 'Principals with access to this GCP project with sufficient permissions will be able to create and run triggers on these repositories, based on triggers GitHub creates. I also understand that content from GitHub app triggers in the Cloud Build step may be stored in GitHub in order to provide functionality like showing trigger names in GitHub build results. This will apply to all existing and future GitHub App triggers in this project.' A red arrow points to the 'Next' button at the bottom of the page.

In the next tab configure these settings:

Entry point command: `streamlit run app.py --server.port=$PORT --server.address=0.0.0.0`

The screenshot shows the 'Create service' dialog in the Google Cloud Platform Cloud Run interface. On the left, there's a sidebar with 'Overview', 'Services' (selected), 'Jobs', 'Worker pools', and 'Domain mappings'. The main area has tabs for 'Cloud Run' and 'Create service'. Under 'Create service', there are sections for 'Configure' (Service name: 'InceptezbigmartPrediction', Region: 'europe-west1 (Belgium)'), 'Endpoint URL' ('https://service-name-423136463005.europe-west1.run.app'), and 'Authentication' (radio button selected for 'Allow public access'). On the right, there's a 'Set up with Cloud Build' section with a warning about continuous deployment. It includes fields for 'Source repository' (branch: '^main\$'), 'Build Configuration' (Build type: 'Go, Node.js, Python, Java, .NET Core, Ruby or PHP via Google Cloud's buildpacks'), 'Endpoint URL' (set to '`streamlit run app.py --server.port=$PORT --server.address=0.0.0.0`'), and a 'Save' button. Red arrows highlight the 'Build Configuration' dropdown, the 'Endpoint URL' field, and the 'Save' button.

Then allow *all public access* and then *Create the service..*

This screenshot continues from the previous one, showing the 'Create service' dialog. The 'Authentication' section now has 'Allow public access' selected (indicated by a red arrow). The 'Create' button at the bottom is highlighted with a red arrow. A modal window is open at the bottom center stating 'The Cloud Build trigger will be created once you create the service'. The right side of the screen shows a 'Pricing summary' panel for Cloud Run pricing, indicating 'Free tier' with 'First 180,000 vCPU-seconds/month', 'First 360,000 GiB-seconds/month', and '2 million requests/month'. There's also a link to 'Check paid tiers details' and 'Open pricing calculator'.

*It will take 5-10 mins for the deployment to be done.. where you can view the logs here:*

The screenshot shows the Google Cloud Run dashboard under the 'Services' tab for a service named 'bigmart-streamlit'. The URL <https://bigmart-streamlit-423136463005.europe-west1.run.app> is displayed prominently. The dashboard includes sections for Overview, Services, Jobs, Worker pools, and Domain mappings. The Observability tab is selected, showing metrics like Request count, Request latencies, End-to-end request latency, and Latency breakdown. All four charts currently show 'No data is available for the selected time frame.'

*Once deployed you should see the Global link to access the website from the dashboard*

The screenshot shows the Google Cloud Run dashboard under the 'Services' tab for a service named 'streamlit-inceptez25'. The URL <https://streamlit-inceptez25-423136463005.europe-west1.run.app> is highlighted with a red arrow. The dashboard includes sections for Overview, Services, Jobs, Worker pools, and Domain mappings. The Observability tab is selected, showing metrics like Request count, Request latencies, End-to-end request latency, and Latency breakdown. The Request count chart shows a sharp spike from 0 to 2/s at 12:00 PM. The Request latencies chart shows a step increase from 10min to 5min at 12:00 PM. The End-to-end request latency chart shows a step increase from 10min to 5min at 12:00 PM. The Latency breakdown chart shows a step increase from 500ms to 0 at 12:00 PM. A yellow bar at the bottom provides the full URL: <https://console.cloud.google.com/run/detail/europe-west1/streamlit-inceptez25/observability/logs?project=inceptezbigmartprediction>.