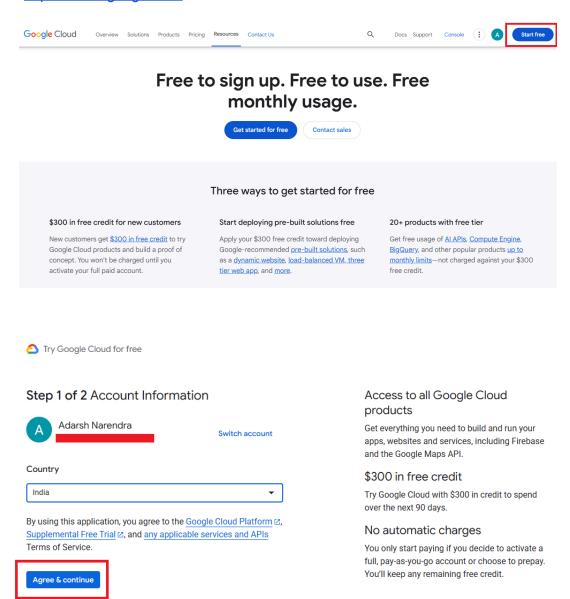
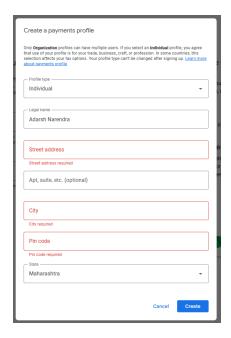
# **Google Cloud Workshop Starter**

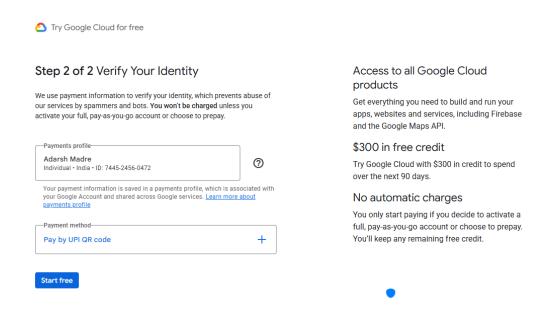
### Pre-Workshop Checklist for Students

- 1. Google Cloud Setup
  - Create a Google Cloud account (with free credits) using your personal e-mail ID at https://cloud.google.com





Enable billing (free credits or existing billing account)



- For billing you can use the UPI option, which will prompt you to set up an autopay of, Rs 15000 initially. (On payment, an amount of Rs. 2 will be deducted to verify the UPI.
- Disable the autopay option after the billing is enabled with the \$300 free credits

#### 2. Install Required Tools on Local Machine

Tool Link

Python 3.8+ <a href="https://www.python.org/downloads/">https://www.python.org/downloads/</a>

Git <u>https://git-scm.com/</u>

Google Cloud SDK (gcloud) <a href="https://cloud.google.com/sdk/docs/install">https://cloud.google.com/sdk/docs/install</a>

Cloud SQL Auth Proxy <a href="https://cloud.google.com/sql/docs/mysql/sql-proxy">https://cloud.google.com/sql/docs/mysql/sql-proxy</a>

#install

Postman/ThunderClient

extension

https://www.postman.com/downloads

Git Repo for files <a href="https://github.com/Adarsh7448/cloud-gcp.git">https://github.com/Adarsh7448/cloud-gcp.git</a>

(will be updated after session)

## Workshop Overview

#### Day 1

- 1. Introduction to Cloud Computing
- 2. Primary Players
- 3. Introduction to GCP
- 4. Google Cloud Products
- 5. Methods of Interaction Cloud Console/Cloud shell/cloud SDK
- 6. My First Project
- 7. Introduction to Cloud Storage
- 8. Hands on with Cloud storage with gcloud SDK
- 9. Scaling Up
- 10. Day 1 Assignment

#### Day 2

- 1. Introduction to Cloud SQL
- 2. Enable Google Cloud SQL API
- 3. MySQL Instance
- 4. Creating Database
- 5. Scaling Up
- 6. Day 2 Assignment

### Day 3

- 1. Introduction to Cloud Build
- 2. working
- 3. What is Artifact Registry?
- 4. Usage
- 5. Introduction to Cloud Run
- 6. Other deployment approaches
- 7. Bringing it all together
- 8. Deploying a flask app using Cloud storage, Cloud SQL, Cloud Build and Cloud Run
- 9. Quiz