Chapter 1: Introducing Google Cloud AI Services

Job Discovery Demo

Focus on the relevant jobs

Cloud Job Discovery recognizes when searches can have multiple interpretations and variations, matching on the concept to include the most relevant results.

<table>
<thead>
<tr>
<th>Standard keyword search</th>
<th>68 matching jobs</th>
<th>408 matching jobs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Server</td>
<td>925 Blossom Hill Rd, San Jose, CA 95123, USA</td>
<td>Server 925 Blossom Hill Rd, San Jose, CA 95123, USA</td>
</tr>
<tr>
<td>Csi - Infra - Network Voice Engineer</td>
<td>San Jose, CA, USA</td>
<td>Back Server 180 El Camino Real #1140, Palo Alto, CA 94304, USA</td>
</tr>
<tr>
<td>Network Voice Engineer</td>
<td>San Jose, CA, USA</td>
<td>Server Menlo Park, CA, USA</td>
</tr>
<tr>
<td>Web Administrator</td>
<td>San Jose, CA, USA</td>
<td>barista San Jose, CA, USA</td>
</tr>
<tr>
<td>Data Analyst</td>
<td>Headquarters Dr, San Jose, CA 95134, USA</td>
<td>Host / Hostess 925 Blossom Hill Rd, San Jose, CA 95123, USA</td>
</tr>
</tbody>
</table>
This is a great book you are reading.

Try the API

Source Language
Chinese (Simplified) (zh)

Target Language
English (en)

Translate Text

Detect Language

Supported Languages

Faces

Labels

Web

Properties

Safe Search

JSON

Joy
Sorrow
Anger
Surprise
Exposed
Blurred
Headwear

Roll: 29°
Tilt: 7°
Pan: 53°

Confidence: 90%

Try the API

Labels

Shots

Explicit Content

API

Video Labels
Detect and label entities, such as dogs, flowers, and people, throughout the entire video.

- **dinosaur**: 94%
- **bicycle**: 48%
- **vehicle**: 48%
- **tree**: 42%
- **plant**: 42%
- **tyrannosaurus**: 42%
- **dinosaur**: 42%

Note: short-lived label annotations are present on the shots tab.
Chapter 2: Setting Up a Smart Forum App

Create New Thread

Title
Hello, World

Enter a brief title of the thread:

This is the first post in this thread:

hello world First post

Create

Total Threads: (2)

<table>
<thead>
<tr>
<th>Title</th>
<th>Created By</th>
<th>Likes</th>
<th>Tags</th>
<th>Updated At</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pinned Thread</td>
<td>Arvind</td>
<td>0</td>
<td>pinned-thread</td>
<td>Mar 19, 2018, 11:17:55 AM</td>
</tr>
<tr>
<td>Hello, World</td>
<td>Arvind</td>
<td>0</td>
<td>hello-world-first-post</td>
<td>Mar 19, 2018, 11:17:36 AM</td>
</tr>
</tbody>
</table>

Database

mongoDB
mLab

Server

node
mongoose express
Cloud SDK

Client

Google Cloud Platform
rs-ds211309:PRIMARY> db.stats()
{
    "db": "smart-exchange",
    "collections": 2,
    "views": 0,
    "objects": 1,
    "avgObjSize": 48,
    "dataSize": 48,
    "storageSize": 12288,
    "numExtents": 2,
    "indexes": 0,
    "indexSize": 0,
    "fileSize": 16777216,
    "nsSizeMB": 1,
    "extentFreeList": {
        "num": 8,
        "totalSize": 1597440
    },
    "dataFileVersion": {
        "major": 4,
        "minor": 22
    }
},
"ok": 1
rs-ds211309:PRIMARY>
Perform authentication

Database: smart-exchange

The admin database is unique in MongoDB. Users with normal access to the admin database have read and write access to all databases.

User Name: admin
Password: admin123
Auth Mechanism: SCRAM-SHA-1

Test Cancel Save

Default Database: smart-exchange

Database, that will be default (db shell variable will point to this database). By default, default database will be the one you authenticate on, or test otherwise. Leave this field empty, if you want default behaviour.

Test Cancel Save
smart-exchange-base  mongo ds211309.mlab.com:11309/smart-exchange -u admin -p admin123
MongoDB shell version v3.4.10
connecting to: mongodb://ds211309.mlab.com:11309/smart-exchange
MongoDB server version: 3.4.13
rs-ds211309:PRIMARY> show collections;
rs-ds211309:PRIMARY> db.users.find({}).pretty();
{
   "_id" : ObjectId("5a9fb06ec790687418346c68"),
   "name" : "Arvind Ravalvaru",
   "email" : "arvind@myapp.com",
   "password" : "S2a$10$AA5PARe0YgfIlfHBkIYgX.w7HqlWncgzGuRDQjUIzvMmtCu15l8xe",
   "role" : "user",
   "__v" : 0
}
rs-ds211309:PRIMARY> ```

Create New Thread

Title

Hello, World

Enter a brief title of the thread:

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

first "post"

Create
smart-exchange-base> mongo ds211389.mlab.com:11309/smart-exchange --u admin --p admin123

MongoDB shell version v3.4.10
connecting to: mongodb://ds211389.mlab.com:11309/smart-exchange
MongoDB server version: 3.4.13

rs-ds211389:PRIMARY> show collections;
system.indexes
threads
users

rs-ds211389:PRIMARY> db.threads.find({}).pretty();
{
   "_id" : ObjectID("5aafbd6c790687418346c69"),
   "title" : "Hello, World",
   "description" : "Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minin veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis autem vel erit in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit a
   "tags" : [
      {
         "displayValue" : "first"
      }
   ],
   "isPinned" : false,
   "createdBy" : ObjectID("5aafbd6ec790687418346c88"),
   "lastUpdatedBy" : ObjectID("5aafbd6ec790687418346c88"),
   "likes" : 0,
   "createdAt" : ISODate("2018-03-19T12:49:22.351Z"),
   "lastUpdatedAt" : ISODate("2018-03-19T12:49:22.351Z"),
   "v" : 0
}

rs-ds211389:PRIMARY>
Hello, World
Created By: Arvind Ravulavaru
Updated At: Mar 19, 2018, 6:19:22 PM

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

❤️ 4

Comments

Created By:
Updated At: Mar 19, 2018, 6:29:36 PM

Neque porro quisquam est qui dolorem ipsum quia dolor sit amet, consectetur, adipisci velit...
Enable billing for project “SmartExchange”

You are not an administrator of any billing accounts. To enable billing on this project, create a new billing account or contact your billing account administrator to enable billing for you. Learn more
There is no data for this API in this time span.
```json
{
    "page": 1,
    "per_page": 3,
    "total": 12,
    "total_pages": 4,

    "data": [
        {
            "id": 1,
            "first_name": "George",
            "last_name": "Bluth",
            "avatar": "https://s3.amazonaws.com/ufaces/faces/twitter/colliegon7/128.png"
        },
        {
            "id": 2,
            "first_name": "Janet",
            "last_name": "Weaver",
            "avatar": "https://s3.amazonaws.com/ufaces/faces/twitter/josephstein/128.png"
        },
        {
            "id": 3,
            "first_name": "Emma",
            "last_name": "Kim",
            "avatar": "https://s3.amazonaws.com/ufaces/faces/twitter/ale xnxx/128.png"
        }
    ]
}
```
Requests in Postman are saved in collections (a group of requests).
Learn more about creating collections

Request name
Face Detection

Request description (Optional)
Face Detection using Google Cloud API

Descriptions support Markdown

Select a collection or folder to save to:

Search for a collection or folder
Cloud Vision API

POST https://vision.googleapis.com/v1/images:annotate?key=Kza5yAmMx0XXs04hRfFJDJE6yY23HF9KjQOk

```

1
2
3
4
5

{
  "requests": [
    {
      "image": {
        "content": "...
      }
    }
  ]
}
```
Reply to thread

Describe thread

Reply with Image

Choose file

Reply
Chapter 4: Video Intelligence API

Cloud Video Intelligence API
Google
Cloud Video Intelligence API.

MANAGE TRY THIS API

API enabled
```json

```
```
Chapter 5: Cloud Speech API

Cloud Speech API
Google
Speech recognition

POST
https://speech.googleapis.com/v1/speech/recognize?key=AlzaSyAmMqOXoDk8QFzXK...

Authorization
Headers (1)
Body
Pre-request Script
Tests
Params
Cookies
Code

1:
2:
3:
4:
5:
6:
7:
8:
9:
10:

```
"config": {
  "encoding": "LINEAR16",
  "sampleRateHertz": 44100,
  "languageCode": "en-us"
},

"audio": {
  "content": "jkaux0bQ0VQF27z-18TR4AAAASAFERNwAMTHYAAAACASA7CFYQBG0JAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAAAAMAAA
audio test
Created By: aaaaa
Updated At: Apr 1, 2018, 1:39:17 PM

audio test

❤ 0

Comments
Created By: aaaaa
Updated At: Apr 1, 2018, 3:32:29 PM

❤ 0  📩 Message

Transcript

<table>
<thead>
<tr>
<th></th>
<th>Confidence</th>
<th>Words</th>
</tr>
</thead>
<tbody>
<tr>
<td>this is a sample recording</td>
<td>96.99932 %</td>
<td>--</td>
</tr>
</tbody>
</table>

Reply to thread

Describe thread

Reply  Reply with Image  Reply with Video  Reply with Audio

http://localhost:4200 wants to

📢 Use your microphone

Block  Allow
this is a sample recording When I am taking a screenshot of a circle

Confidence: 90.95441%
Chapter 6: Cloud Natural Language

Cloud Natural Language API
Google

Provides natural language understanding technologies to developers. Examples include sentiment...

```
POST https://language.googleapis.com/v1/documents:analyzeSentiment?key=AtsaSykmMqO6z2k8HfP_jL

1 - {
    "encodingType": "UTF8",
    "document": {
        "type": "PLAIN_TEXT",
        "content": "Enjoy your vacation!"
    }
}
```

```
Status: 200 OK  Time: 1340 ms  Size: 790 B

1 - {
    "documentSentiment": {
        "magnitude": 0.9,
        "score": 0.9
    },
    "language": "en",
    "sentences": [
        {
            "text": {
                "content": "Enjoy your vacation!",
                "beginOffset": 0
            },
            "sentiment": {
                "magnitude": 0.9,
                "score": 0.9
            }
        }
    ]
}
```
Welcome to the book on "Getting started with Google Cloud AI Services", where we are going to explore the powerful Google Cloud AI services via a project based approach. We are going to build a forum application, similar to Discourse or Stack Overflow where users start a discussion thread and other users comment on it.

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Chapter 7: Cloud Translation

Get Supported Languages

POST  
https://translation.googleapis.com/language/translate/v2/languages?key=AIzaSyAhvH0yO4k4f6uFjJp9EHy9CG58RDQe

Body

```json
{
  "target": "en"
}
```

 Translate text

POST  
https://translation.googleapis.com/language/translate/v2?key=AIzaSyAhvH0yO4k4f6uFjJp9EHy9CG58RDQe

Body

```json
{
  "target": "fr",
  "q": "Hello World!"
}
```

```json
{
  "data": {
    "translations": [
      {
        "detectedSourceLanguage": "en",
        "translatedText": "Bonjour le monde!"
      }
    ]
  }
}
```
Welcome to the book on "Getting started with Google Cloud AI Services", where we are going to explore the powerful Google Cloud AI services via a project based approach. We are going to build a forum application, similar to Discourse or Stack Overflow where users start a discussion thread and other users comment on it.

### Original Message
Welcome to the book on "Getting started with Google Cloud AI Services", where we are going to explore the powerful Google Cloud AI services via a project based approach. We are going to build a forum application, similar to Discourse or Stack Overflow where users start a discussion thread and other users comment on it.

### Translated Message
"গ্রান্থে কৃত্তিক একটি নতুন সৃষ্টি তৈরি করা হয়েছে। যেখানে আমরা একটি এখন পর্যন্ত প্রকৃতির সাথে সহযোগিতায় Google প্রতিষ্ঠানটি এর মাধ্যমে সৃষ্টি করে। আমরা একটি আইন অনুসারী আইন তৈরি করেছি যার মাধ্যমে Discourse ও ইন্টারনেট বিশ্বের সাথে যুক্তি করা যায়। যেখানে ব্যবহারকারীরা আলোচনা এর মাধ্যমে অন্যদের সাথে আলোচনা করে।"
**Original Message**
Welcome to the book on "Getting started with Google Cloud AI Services", where we are going to explore the powerful Google Cloud AI services via a project based approach. We are going to build a forum application, similar to Discourse or Stack Overflow where users start a discussion thread and other users comment on it.

**Translated Message**
"প্রান্ত কৃত্রিম এবাই সুন্দর হবে এবং আমরা একটি স্বল্পদৈর্ঘ্য প্রক্রিয়ায় মাধ্যমে সম্পর্কিত Google এর একটি পরিকল্পনা অবলম্বন করতে পারি। আমরা একটি ভাষামূলক আইনের ব্যাখ্যা করতে পারি,
Discourse বা স্ট্যাক ওভারফোর্নের মত, যেহেতু ব্যবহারকারীরা আলাদা একত্র করে এবং অন্যান্য ব্যবহারকারীরা
এর দিকে নেয়।"