



EduSkills

Nation Building Through Skills

Google for Developers

Google AI-ML course process document

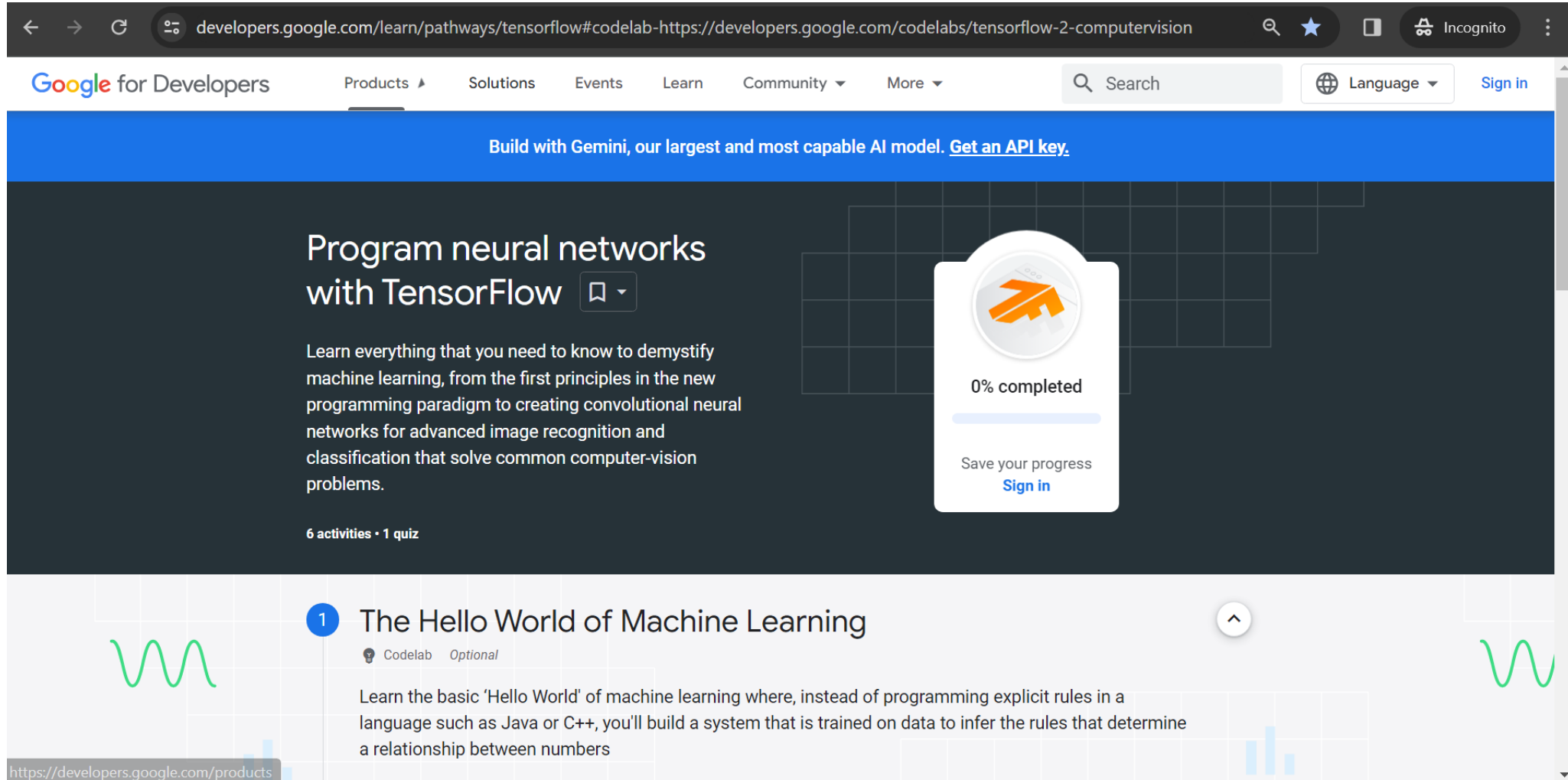
This process document will guide you in

- How to sign in (Registration)?
- Guide you to access the course
- How you can create your profile
- Create the custom web address

PART-1 Registration

Step: 1 Click on the link given below.

LINK: <https://developers.google.com/learn/pathways/tensorflow#codelab-https://developers.google.com/codelabs/tensorflow-2-computervision>



The screenshot shows the Google Developers website in an Incognito browser window. The address bar displays the URL: `developers.google.com/learn/pathways/tensorflow#codelab-https://developers.google.com/codelabs/tensorflow-2-computervision`. The page header includes the Google for Developers logo and navigation links for Products, Solutions, Events, Learn, Community, and More. A search bar and a language selector are also present. The main content area features a blue banner with the text "Build with Gemini, our largest and most capable AI model. [Get an API key.](#)". Below this, the heading "Program neural networks with TensorFlow" is displayed, accompanied by a description: "Learn everything that you need to know to demystify machine learning, from the first principles in the new programming paradigm to creating convolutional neural networks for advanced image recognition and classification that solve common computer-vision problems." A progress indicator shows "0% completed" with a "Sign in" link to save progress. At the bottom, the first activity is listed: "1 The Hello World of Machine Learning", marked as a Codelab and Optional. The description for this activity states: "Learn the basic 'Hello World' of machine learning where, instead of programming explicit rules in a language such as Java or C++, you'll build a system that is trained on data to infer the rules that determine a relationship between numbers".

Google for Developers

Products Solutions Events Learn Community More

Search

Language Sign in

Build with Gemini, our largest and most capable AI model. [Get an API key.](#)

Program neural networks with TensorFlow

Learn everything that you need to know to demystify machine learning, from the first principles in the new programming paradigm to creating convolutional neural networks for advanced image recognition and classification that solve common computer-vision problems.

0% completed

Save your progress [Sign in](#)

6 activities • 1 quiz

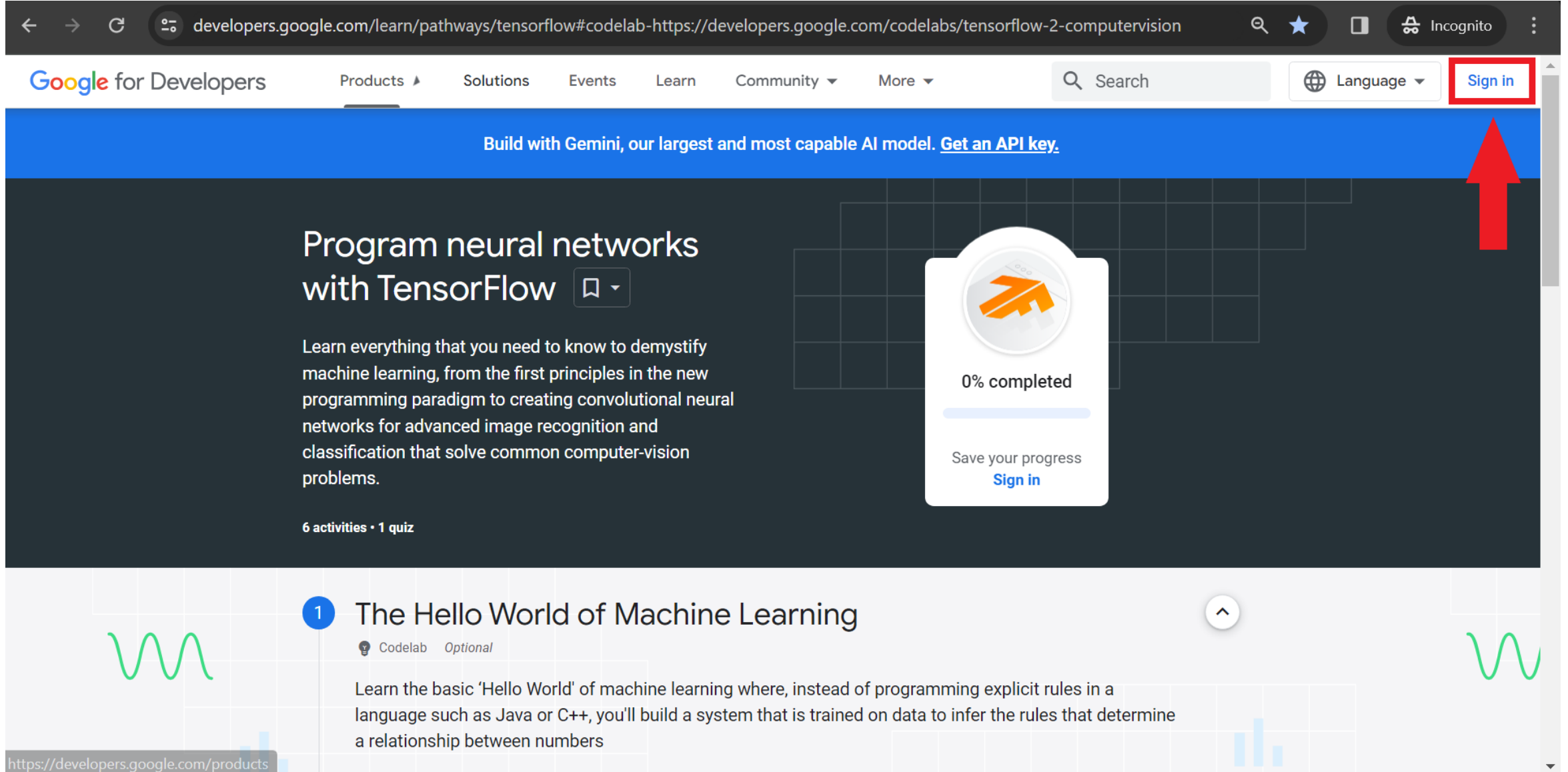
1 The Hello World of Machine Learning

Codelab Optional

Learn the basic 'Hello World' of machine learning where, instead of programming explicit rules in a language such as Java or C++, you'll build a system that is trained on data to infer the rules that determine a relationship between numbers

<https://developers.google.com/products>

Step: 2 Click on Sign in.



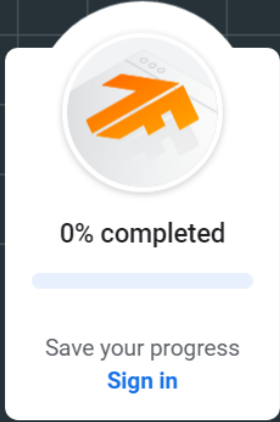
The screenshot shows the Google Developers website in an Incognito browser window. The address bar displays the URL: `developers.google.com/learn/pathways/tensorflow#codelab-https://developers.google.com/codelabs/tensorflow-2-computervision`. The navigation bar includes links for Products, Solutions, Events, Learn, Community, and More, along with a search bar and a Language dropdown. A red rectangle highlights the "Sign in" button in the top right corner, with a red arrow pointing upwards towards it.

Build with Gemini, our largest and most capable AI model. [Get an API key.](#)

Program neural networks with TensorFlow

Learn everything that you need to know to demystify machine learning, from the first principles in the new programming paradigm to creating convolutional neural networks for advanced image recognition and classification that solve common computer-vision problems.

6 activities • 1 quiz




0% completed

Save your progress

[Sign in](#)

1 The Hello World of Machine Learning

 Codelab *Optional*

Learn the basic 'Hello World' of machine learning where, instead of programming explicit rules in a language such as Java or C++, you'll build a system that is trained on data to infer the rules that determine a relationship between numbers

<https://developers.google.com/products>

Step: 3 Enter **Mail ID** & click on **Next** button.

accounts.google.com/v3/signin/identifier?continue=https%3A%2F%2Fdevelopers.google.com%2F_d%2Freturn%3Fcontinue%3Dhttps%253A%...

Google

Sign in

Use your Google Account

Email or phone

Forgot email?

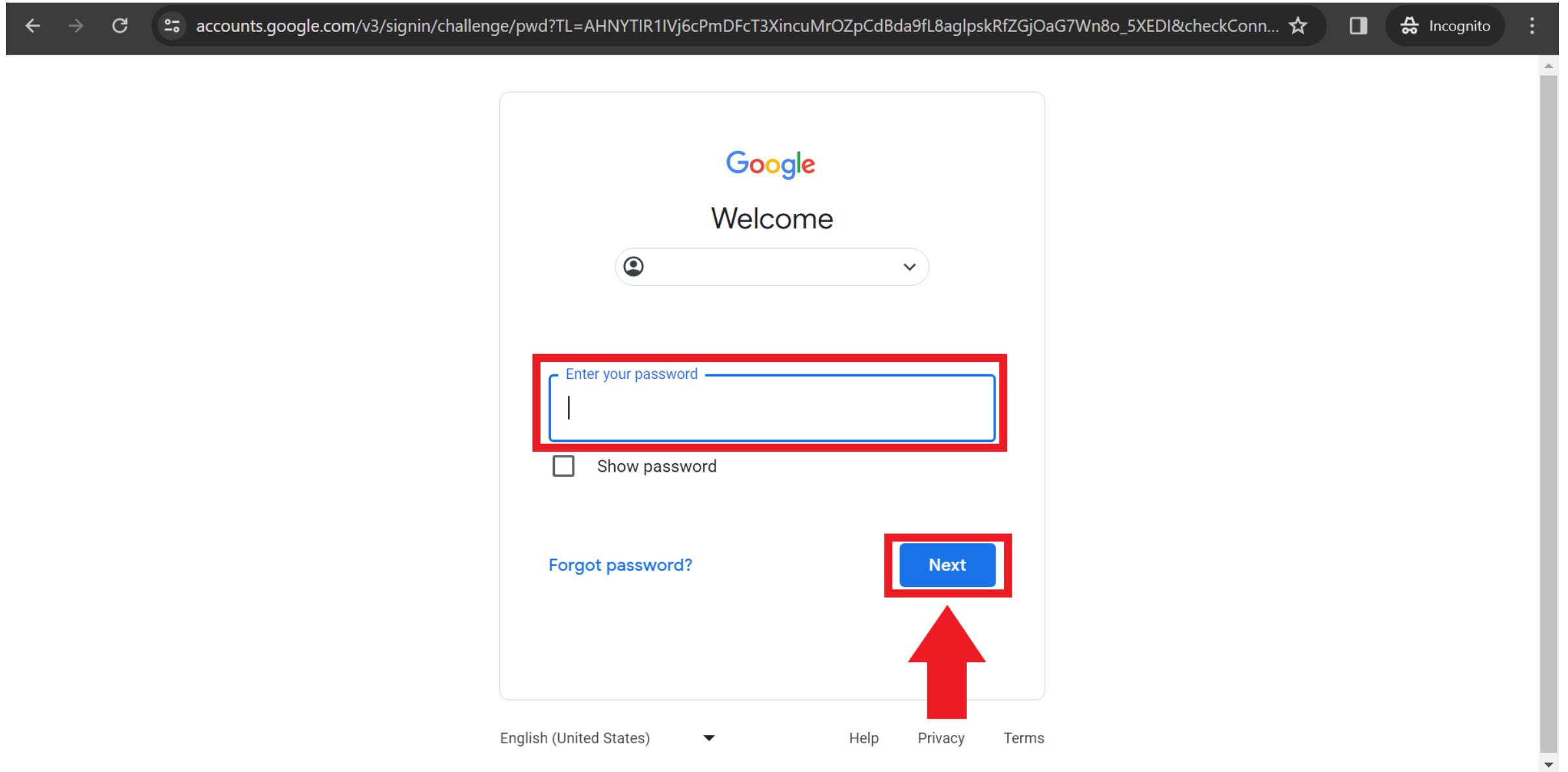
Not your computer? Use Guest mode to sign in privately.
[Learn more](#)

[Create account](#)

Next

English (United States) Help Privacy Terms

Step: 4 Enter **Password** and click on **Next** button to Sign in.



The screenshot shows the Google sign-in interface in an Incognito browser window. The address bar displays the URL: `accounts.google.com/v3/signin/challenge/pwd?TL=AHNYTIR1IVj6cPmDFcT3XincuMrOZpCdBda9fL8aglpSkRfZGjOaG7Wn8o_5XEDI&checkConn...`. The main content area features the Google logo, the word "Welcome", and a user selection dropdown. Below this is a password input field with the placeholder text "Enter your password", which is highlighted with a red rectangular border. Underneath the input field is a checkbox labeled "Show password". To the left of the "Next" button is a link that says "Forgot password?". The "Next" button itself is a blue rectangle with white text, also highlighted with a red rectangular border. A large red arrow points upwards from the bottom of the page towards the "Next" button. At the very bottom, there is a footer with the text "English (United States)" followed by a dropdown arrow, and then links for "Help", "Privacy", and "Terms".

Google

Welcome

Enter your password

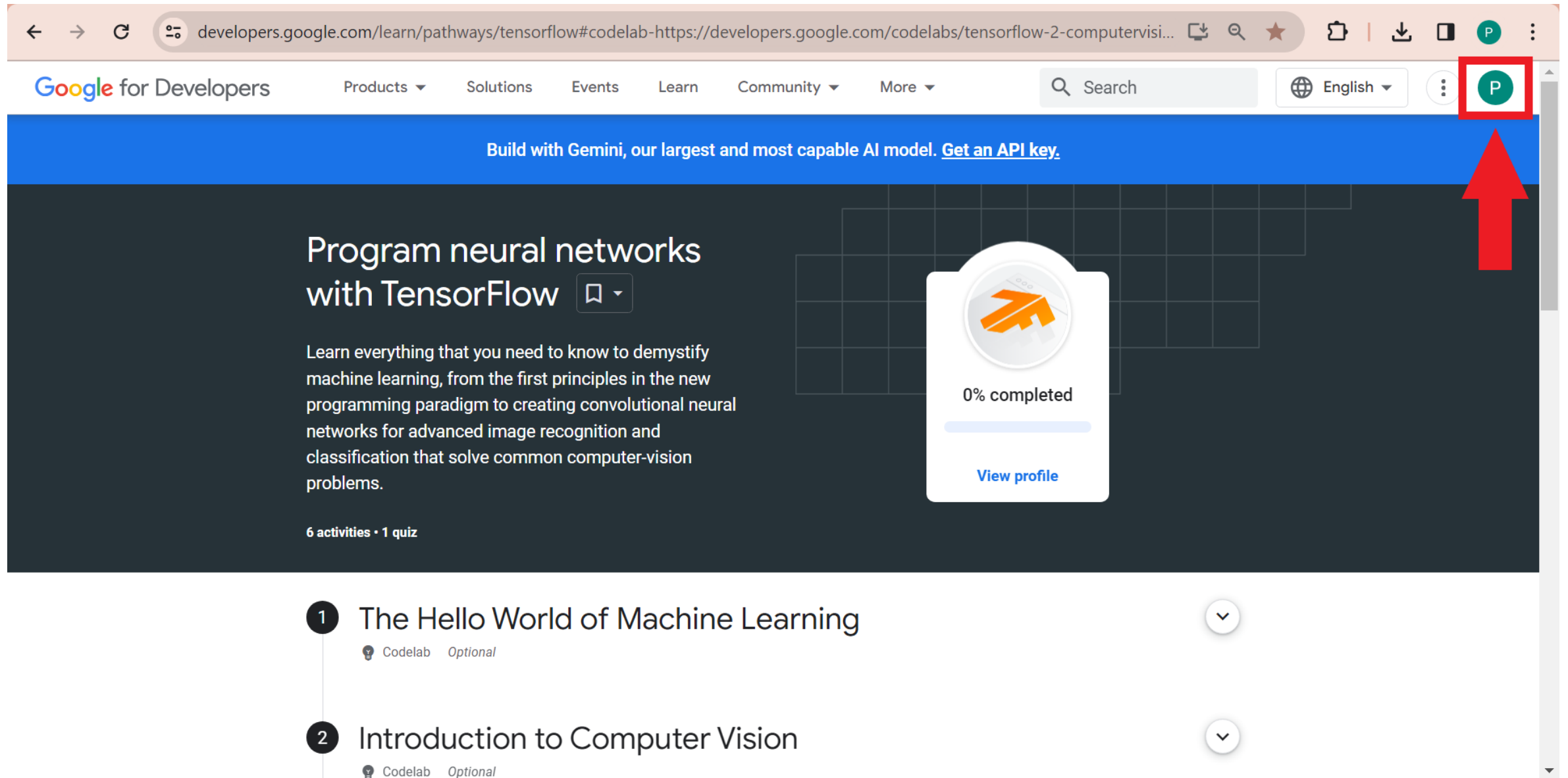
☐ Show password

[Forgot password?](#)

Next

English (United States) ▼ Help Privacy Terms

Registration Successful



The screenshot shows a web browser at the URL `developers.google.com/learn/pathways/tensorflow#codelab-https://developers.google.com/codelabs/tensorflow-2-computervisi...`. The Google Developers header is visible with navigation links for Products, Solutions, Events, Learn, Community, and More. A search bar and language selector (English) are also present. In the top right corner, a green circular profile icon with a white 'P' is highlighted by a red square, with a red arrow pointing to it from below. Below the header, a blue banner promotes Gemini AI with the text "Build with Gemini, our largest and most capable AI model. [Get an API key.](#)". The main content area features the title "Program neural networks with TensorFlow" with a bookmark icon. Below the title, a paragraph describes learning machine learning principles for image recognition. A progress card shows "0% completed" with a "View profile" link. At the bottom, a list of activities is shown: "1 The Hello World of Machine Learning" (Codelab, Optional) and "2 Introduction to Computer Vision" (Codelab, Optional), each with a dropdown arrow.

developers.google.com/learn/pathways/tensorflow#codelab-https://developers.google.com/codelabs/tensorflow-2-computervisi...


Google for Developers Products Solutions Events Learn Community More Search English

Build with Gemini, our largest and most capable AI model. [Get an API key.](#)

Program neural networks with TensorFlow

Learn everything that you need to know to demystify machine learning, from the first principles in the new programming paradigm to creating convolutional neural networks for advanced image recognition and classification that solve common computer-vision problems.

6 activities • 1 quiz



0% completed

[View profile](#)

- 1 The Hello World of Machine Learning
Codelab Optional
- 2 Introduction to Computer Vision
Codelab Optional

PART-2 Course Completion

Google AI-ML course units to be completed:

UNIT-1 Program neural networks with TensorFlow

UNIT-2 Get started with object detection

UNIT-3 Go further with object detection

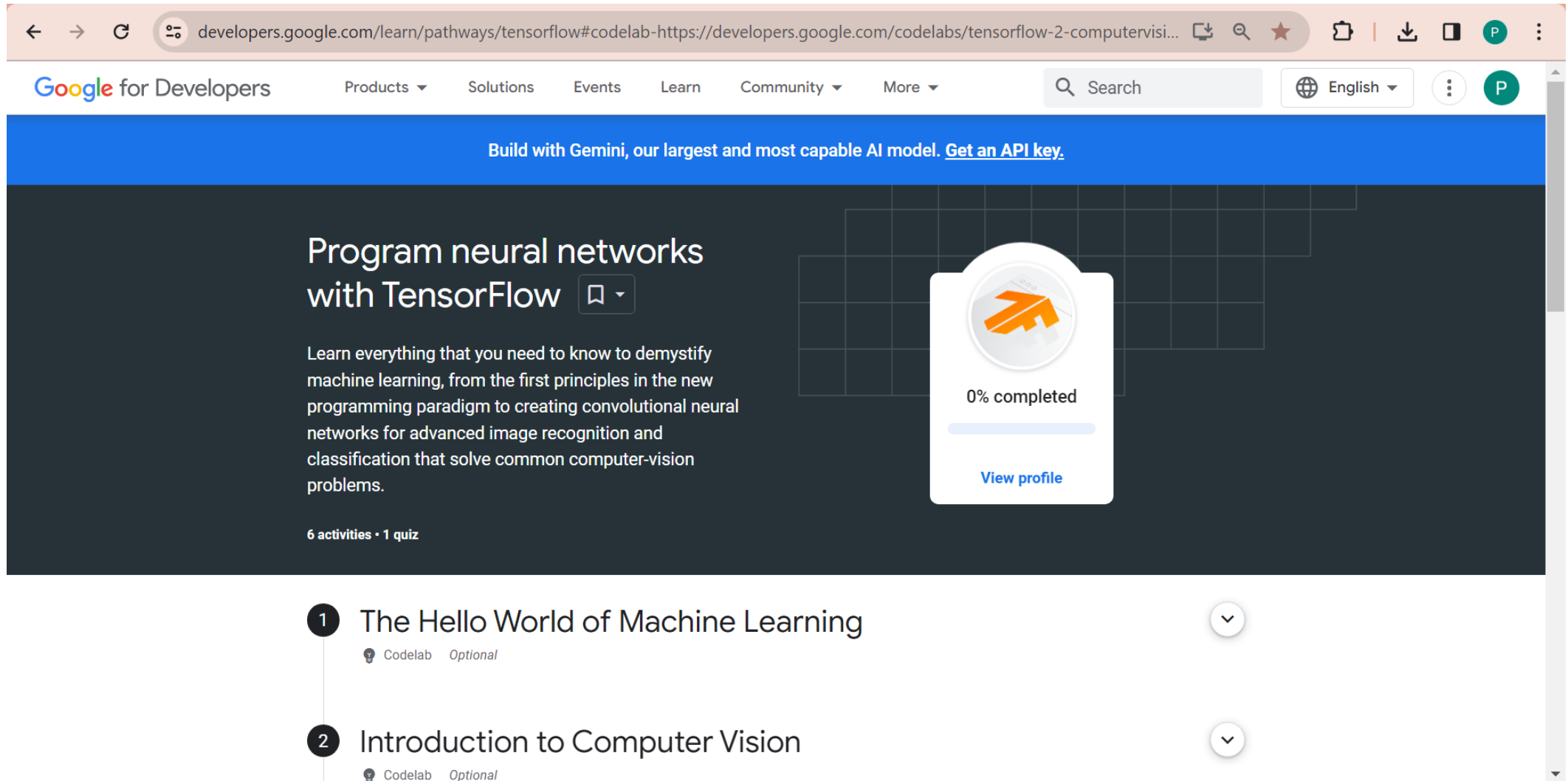
UNIT-4 Get started with product image search

UNIT-5 Go further with product image search

UNIT-6 Go further with image classification

Step: 5 Click on the link given below to access **UNIT-1** & scroll down.

LINK: <https://developers.google.com/learn/pathways/tensorflow#codelab-https://developers.google.com/codelabs/tensorflow-2-computervision>



The screenshot shows the Google Developers website for the TensorFlow pathway. The browser's address bar displays the URL: `developers.google.com/learn/pathways/tensorflow#codelab-https://developers.google.com/codelabs/tensorflow-2-computervision`. The page features a blue header with the Google for Developers logo and navigation links for Products, Solutions, Events, Learn, Community, and More. A search bar and language selector (English) are also present. Below the header, a blue banner promotes Gemini AI with the text "Build with Gemini, our largest and most capable AI model. [Get an API key.](#)". The main content area has a dark background with the title "Program neural networks with TensorFlow" and a brief description: "Learn everything that you need to know to demystify machine learning, from the first principles in the new programming paradigm to creating convolutional neural networks for advanced image recognition and classification that solve common computer-vision problems." It also indicates "6 activities • 1 quiz". A white profile card shows a TensorFlow logo, "0% completed", and a "View profile" link. At the bottom, a list of activities is shown, including "1 The Hello World of Machine Learning" and "2 Introduction to Computer Vision", both marked as "Optional" Codelabs.

Google for Developers Products Solutions Events Learn Community More Search English P

Build with Gemini, our largest and most capable AI model. [Get an API key.](#)

Program neural networks with TensorFlow

Learn everything that you need to know to demystify machine learning, from the first principles in the new programming paradigm to creating convolutional neural networks for advanced image recognition and classification that solve common computer-vision problems.

6 activities • 1 quiz

0% completed

[View profile](#)

- 1 The Hello World of Machine Learning
Codelab Optional
- 2 Introduction to Computer Vision
Codelab Optional

Step: 6 Complete All the stages, Take the quiz to earn **UNIT-1** badge.

developers.google.com/learn/pathways/tensorflow#codelab-https://developers.google.com/codelabs/tensorflow-2-computervisi...

Google for Developers Products Solutions Events Learn Community Developer Profile Blog Search English P

- 1 The Hello World of Machine Learning Codelab Optional
- 2 Introduction to Computer Vision Codelab Optional
- 3 Introduction to Convolutions Codelab Optional
- 4 Convolutional Neural Networks (CNNs) Codelab Optional
- 5 Complex Images Codelab Optional
- 6 Use CNNs with larger datasets Codelab Optional

Intro to Tensorflow Quiz

Take the TensorFlow quiz to earn the TensorFlow badge. You must answer 3 of the 4 questions correctly.

Take the quiz

UNIT-1 Badges to be earned:



**Program neural networks
with TensorFlow**

Step: 7 Click on the link given below to access **UNIT-2 &** complete All the stages, Take the quiz to earn **UNIT-2** badge.

LINK: <https://developers.google.com/learn/pathways/get-started-object-detection?hl=en>

Build with Gemini, our largest and most capable AI model. [Get an API key.](#)

Get started with object detection

Learn the basics of object detection and how to integrate a pretrained object detector into your mobile app.

3 activities • 1 quiz

0% completed

[View profile](#)

- 1 Introduction to object detection
Video
- 2 Build an object detector into your mobile app
Video
- 3 Integrate an object detector using ML Kit Object Detection API
Codelab

Get started with object detection quiz

Pass the quiz to earn a badge.

[Take the quiz](#)

UNIT-2 Badges to be earned:



Get started with object detection

Step: 8 Click on the link given below to access **UNIT-3 &** complete All the stages, Take the quiz to earn **UNIT-3** badge.

LINK: <https://developers.google.com/learn/pathways/going-further-object-detection?hl=en>

Build with Gemini, our largest and most capable AI model. [Get an API key.](#)

Go further with object detection

Learn to train your own custom object-detection models using TensorFlow Lite and the TensorFlow Lite Model Maker library, and build on all the skills you gained in the Get started with object detection pathway.

2 activities • 1 quiz

0% completed

[View profile](#)

- 1 Train your own object-detection model
Video
- 2 Build and deploy a custom object-detection model with TensorFlow Lite
CodeLab

Go further with object detection quiz

Pass the quiz to earn a badge.

[Take the quiz](#)

UNIT-3 Badges to be earned:



Go further with object detection

Step: 9 Click on the link given below to access **UNIT-4 &** complete All the stages, Take the quiz to earn **UNIT-4** badge.

LINK: <https://developers.google.com/learn/pathways/get-started-image-product-search?hl=en>

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Google for Developers Products Solutions Events Learn Community Developer Profile Blog 🔍 Search 🌐 English P ⬆

Build with Gemini, our largest and most capable AI model. [Get an API key.](#)

Get started with product image search

Learn how to build a product image search feature for a mobile app using on-device Object Detection.

5 activities • 1 quiz

0% completed

[View profile](#)

- ➡ 1 Introduction to product image search on mobile
📺 Video
- ➡ 2 Build an object detector into your mobile app
📺 Video
- ➡ 3 Detect objects in images to build a visual product search: Android
🔧 Codelab
- ➡ 4 Object detection: static images
📄 Article Optional
- ➡ 5 Object detection: live camera
📄 Article Optional

Get started with product image search quiz

Pass the quiz to earn a badge.

[Take the quiz](#)

UNIT-4 Badges to be earned:



**Get started with product
image search**

Step: 10 Click on the link given below to access **UNIT-5 &** complete All the stages, Take the quiz to earn **UNIT-5** badge.

LINK: <https://developers.google.com/learn/pathways/going-further-image-product-search?hl=en>

Build with Gemini, our largest and most capable AI model. [Get an API key.](#)

Go further with product image search

Learn how to build and call a product image search backend from a mobile app, enhancing the product search feature you built in the Get started with product image search pathway.

3 activities • 1 quiz

0% completed

[View profile](#)

- 1 Call the product search backend from the mobile app
Video
- 2 Call the product search backend from the Android app
CodeLab
- 3 Build a visual product search backend using Vision API Product Search
CodeLab

Go further with image product search quiz

Pass the quiz to earn a badge.

[Take the quiz](#)

Was this helpful? [👍](#) [👎](#)

UNIT-5 Badges to be earned:



**Go further with product
image search**

Step: 11 Click on the link given below to access **UNIT-6 &** complete All the stages, Take the quiz to earn **UNIT-6** badge.

LINK: <https://developers.google.com/learn/pathways/going-further-image-classification?hl=en>

The screenshot shows the Google Developers website with the URL `developers.google.com/learn/pathways/going-further-image-classification?hl=en`. The page features a dark header with the Google for Developers logo and navigation links. A red box highlights the title "Go further with image classification" and a dropdown menu. Below the title, it says "Learn to build custom image-classification models and improve the skills you gained in the Get started with image classification pathway." and "3 activities • 1 quiz". A progress card shows "0% completed" and a "View profile" link. The main content area lists three activities, each with a red arrow pointing to it:

- 1 Build a flower recognizer (Video Optional)
- 2 Create a custom model for your image classifier (CodeLab Optional)
- 3 Integrate a custom model into your app (CodeLab Optional)

At the bottom, a box titled "Go further with image classification" contains the text "Pass the quiz to earn a badge." and a blue "Take the quiz" button, which is highlighted with a red box and a red arrow.

Total Badges to be earned:



Go further with image classification

Total Badges to be earned:



**Program neural networks
with TensorFlow**



Get started with object detection



Go further with object detection



**Get started with product
image search**



**Go further with product
image search**



Go further with image classification

Note: All the badges will be visible in Profile.

PART-3 Google Developer Profile

← → ↺ 🔍 developers.google.com/learn/pathways/going-further-image-classification?hl=en

Google for Developers Products Solutions Events Learn More

🔍 Search English

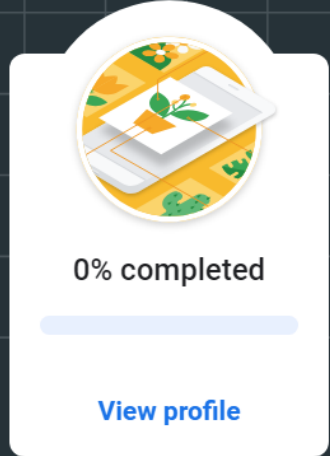
⋮

Build with Gemini, our largest and most capable AI model. [Get an API key.](#)

Go further with image classification

Learn to build custom image-classification models and improve the skills you gained in the Get started with image classification pathway.

3 activities • 1 quiz




0% completed

[View profile](#)

1 Build a flower recognizer

📺 Video Optional



Going further with Image Classification

Watch Later Share

Step: 13 Click on **Profile**.

← → ↺

developers.google.com/learn/pathways/going-further-image-classification?hl=en

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Products ▾ Solutions Events Learn More ▾

🔍 Search

🌐 English ▾

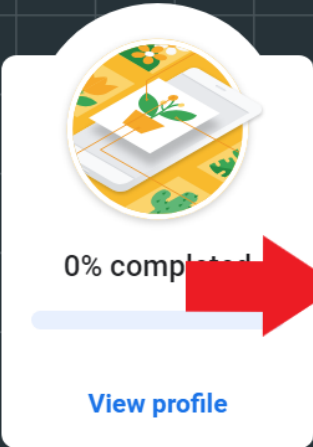
⋮ P

Build with Gemini, our largest and most capable AI model. [Get an API key.](#)

Go further with image classification 📌 ▾

Learn to build custom image-classification models and improve the skills you gained in the Get started with image classification pathway.

3 activities • 1 quiz



0% completed

View profile

Google Developer Profile

GOOGLE DEVELOPER PROFILE

Dashboard

Saved pages


Communities and Programs

Profile

1

Build a flower recognizer

📺 Video Optional

Going further with Image Classification

🕒 Watch Later

➦ Share

Step: 14 Click on **Settings** icon option.

The screenshot shows the Google Developer Profile page for a user named pavankumar_eduskills. The page layout includes a top navigation bar with 'Google for Developers', 'Products', 'Solutions', 'Developer Profile', and 'More'. Below this is a secondary navigation bar with 'Dashboard', 'Saved Pages', 'My Profile', 'My Community', 'Settings', and 'Help'. The 'My Profile' section is active, displaying a green circular profile picture, the name 'Name', and a 'Public' status. A 'STATS' section shows '27 • Badges earned'. To the right, the 'Favorite badges' section is visible, featuring a progress bar with markers at 5, 10, 15, and 20, and a trophy icon. Below the progress bar, there are five placeholder cards for badges, each with a dashed circle and the text 'Add a badge'. A red square highlights the settings gear icon in the top right corner of the profile card, with a large red arrow pointing to it from the right.

Step: 15 Enter your name and match it with the certificate upload profile name as shown below. **Make sure to add space between your first name, Middle name and the last name.**

Android Basics with Compose co X Google Developer Profile | Google X +

developers.google.com/profile/u/pavankumar_eduskills

Google for Developers Products Solutions Events Learn Community Developer Profile Blog

Dashboard Saved Pages My Profile My Community Settings Help

Edit profile

Public Your profile is visible publicly. [Change settings](#)

PROFILE INFO

Name* I am a...

At... Pronoun

City/Town Experience

Gender

Save Cancel

EduSkills®
Nation Building Through Skills

ACTE

Certificate Verification

First Name

Middle Name

Last Name

Last Name

Google Ai-ML All badges

Enter google developer batches Url.

Submit

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Step: 16 Verify the details.

The screenshot displays the Google Developer Profile page for the user `pavankumar_eduskills`. The browser's address bar shows the URL `developers.google.com/profile/u/pavankumar_eduskills`. The page features a navigation bar with links to Dashboard, Saved Pages, My Profile, My Community, Settings, and Help. The profile card on the left, highlighted with a red border, contains the following information:

- Profile Picture:** A green circle.
- Name:** Name
- Student at:** Student at EduSkills Foundation
- He/Him:** He/Him
- Privacy:** Public
- CITY/TOWN:** Bhubaneswar, Odisha, India
- STATS:** 27 • Badges earned

The main content area shows the 'Favorite badges' section with a progress bar (5, 10, 15, 20) and five empty slots for adding badges. Below this is the 'All badges' section, which displays six badges earned on September 4, 2023:

- More Kotlin fundamentals
- Use Room for data persistence
- Build a scrollable list
- Android Views and Compose in Views
- Introduction to SQL
- Store and access data using keys with DataStore

PART-4 Create Custom Web Address

Steps to make Google Developer Profile Public

Step: 17 Click on **Settings** option.

The screenshot shows the Google Developer Profile page for a user named 'pavankumar_eduskills'. The page is divided into several sections. At the top, there is a navigation bar with links to 'Dashboard', 'Saved Pages', 'My Profile', 'My Community', 'Settings', and 'Help'. The 'Settings' link is highlighted with a red box, and a red arrow points to it from below. Below the navigation bar, there is a profile card on the left side, which is also highlighted with a red box. The profile card contains a green circular profile picture, the name 'Name', the title 'Student at EduSkills Foundation', and the name 'He/Him'. Below the profile card, there is a section for 'Public' information, including 'CITY/TOWN' (Bhubaneswar, Odisha, India) and 'STATS' (27 Badges earned). To the right of the profile card, there is a section for 'Favorite badges' with five empty slots, each labeled 'Add a badge'. Below this, there is a section for 'All badges' with six badges listed, each with a title and a date (Sep 4, 2023). The badges are: 'More Kotlin fundamentals', 'Use Room for data persistence', 'Build a scrollable list', 'Android Views and Compose in Views', 'Introduction to SQL', and 'Store and access data using keys with DataStore'. The page also features a search bar and a language selector (English) at the top right.

Android Basics with Compose co x Google Developer Profile | Google x +

developers.google.com/profile/u/pavankumar_eduskills

Google for Developers Products Solutions Events Learn Community Developer Profile Blog Search English P

Dashboard Saved Pages My Profile My Community **Settings** Help

Favorite badges ⓘ

Name
Student at EduSkills Foundation
He/Him

Public

CITY/TOWN
Bhubaneswar, Odisha, India

STATS
27 • Badges earned

Add a badge

All badges Sort by ↑↓

More Kotlin fundamentals
Sep 4, 2023

Use Room for data persistence
Sep 4, 2023

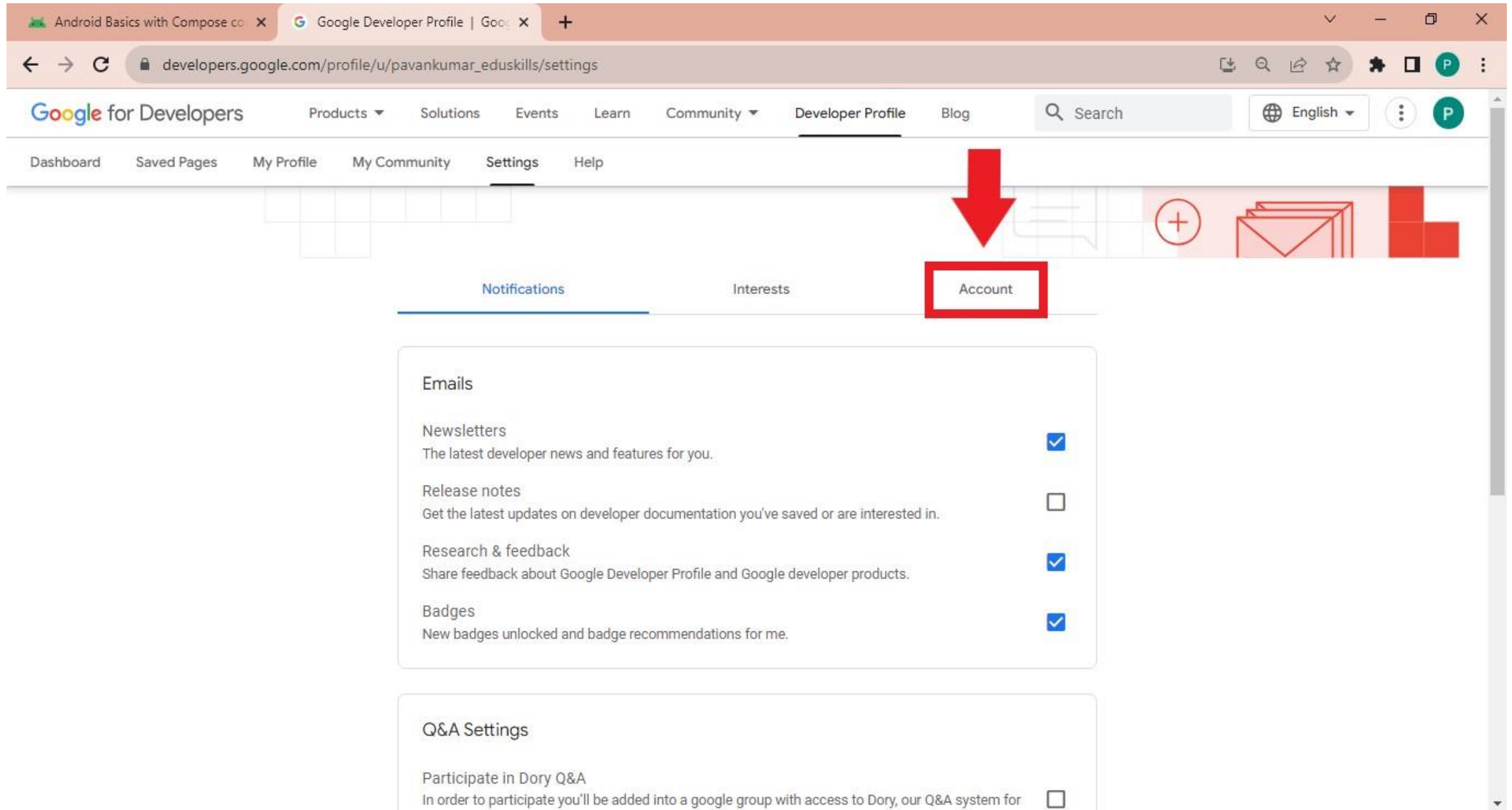
Build a scrollable list
Sep 4, 2023

Android Views and Compose in Views
Sep 4, 2023

Introduction to SQL
Sep 4, 2023

Store and access data using keys with DataStore
Sep 4, 2023

Step: 18 Click on **Account** tab.



The screenshot shows the Google Developer Profile settings page. The browser address bar displays `developers.google.com/profile/u/pavankumar_eduskills/settings`. The page header includes the Google for Developers logo and navigation links: Products, Solutions, Events, Learn, Community, Developer Profile, and Blog. A search bar and language selector (English) are also present. Below the header, a secondary navigation bar contains links for Dashboard, Saved Pages, My Profile, My Community, Settings, and Help. The Settings page is divided into three tabs: Notifications, Interests, and Account. The Account tab is highlighted with a red box, and a large red arrow points down to it. The Account tab content is organized into two sections: Emails and Q&A Settings. The Emails section includes four items: Newsletters (checked), Release notes (unchecked), Research & feedback (checked), and Badges (checked). The Q&A Settings section includes one item: Participate in Dory Q&A (unchecked).

Android Basics with Compose co x Google Developer Profile | Google x +

← → ↻ 🔒 developers.google.com/profile/u/pavankumar_eduskills/settings

Google for Developers Products Solutions Events Learn Community Developer Profile Blog Search English P

Dashboard Saved Pages My Profile My Community Settings Help

Notifications Interests **Account**

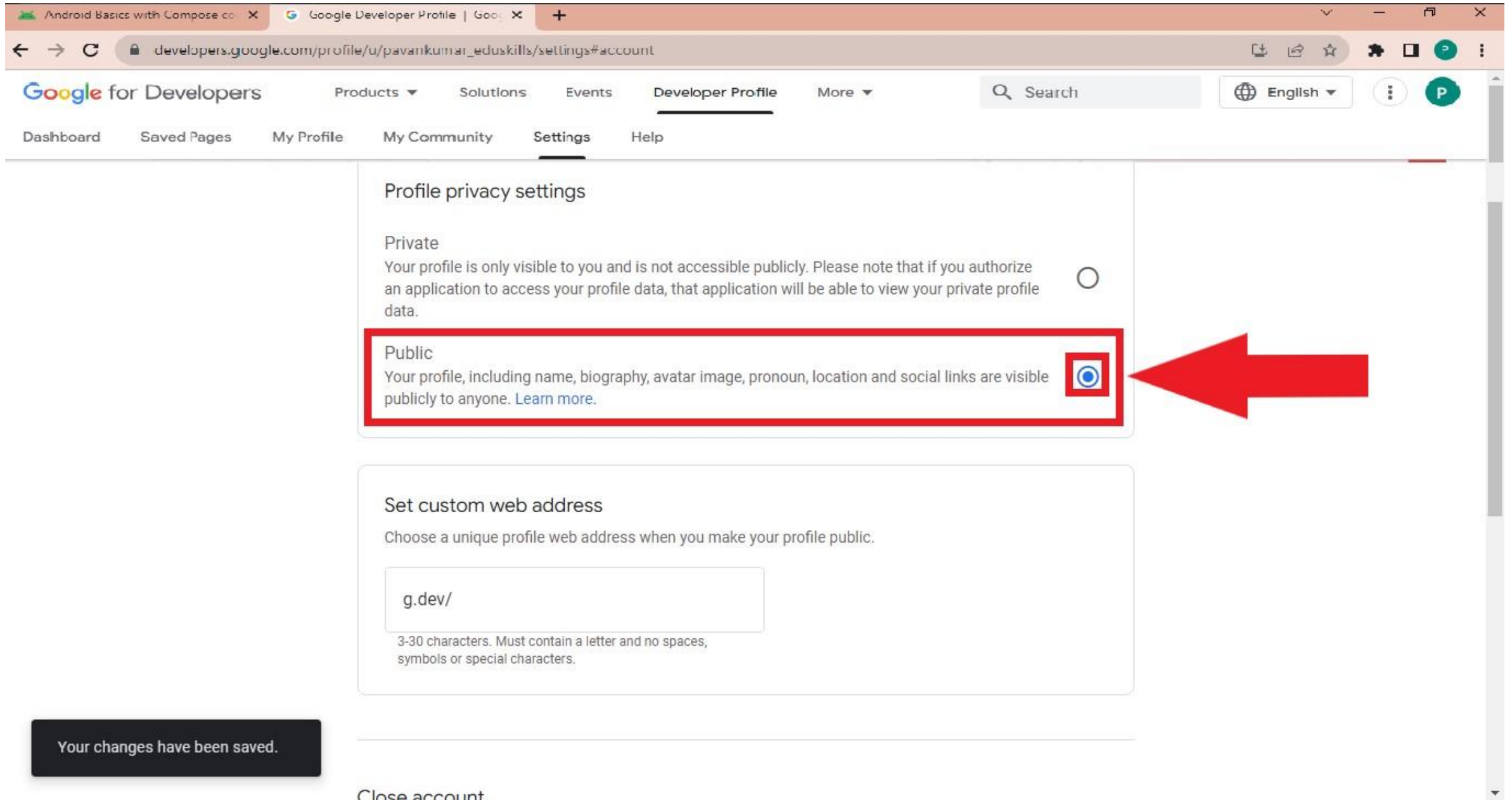
Emails

- Newsletters
The latest developer news and features for you. ☒
- Release notes
Get the latest updates on developer documentation you've saved or are interested in. ☐
- Research & feedback
Share feedback about Google Developer Profile and Google developer products. ☒
- Badges
New badges unlocked and badge recommendations for me. ☒

Q&A Settings

- Participate in Dory Q&A
In order to participate you'll be added into a google group with access to Dory, our Q&A system for ☐

Step: 19 Click on **Public** radio button. Please **don't** select **Private** radio button



The screenshot shows the Google Developer Profile settings page. The 'Profile privacy settings' section has two options: 'Private' and 'Public'. The 'Public' option is selected, indicated by a blue dot in the radio button. A red rectangle highlights the 'Public' option, and a large red arrow points to it from the right. Below this, the 'Set custom web address' section shows a text input field with 'g.dev/' and a note: '3-30 characters. Must contain a letter and no spaces, symbols or special characters.'

Profile privacy settings

Private
Your profile is only visible to you and is not accessible publicly. Please note that if you authorize an application to access your profile data, that application will be able to view your private profile data. ☐

Public
Your profile, including name, biography, avatar image, pronoun, location and social links are visible publicly to anyone. [Learn more.](#) ☒

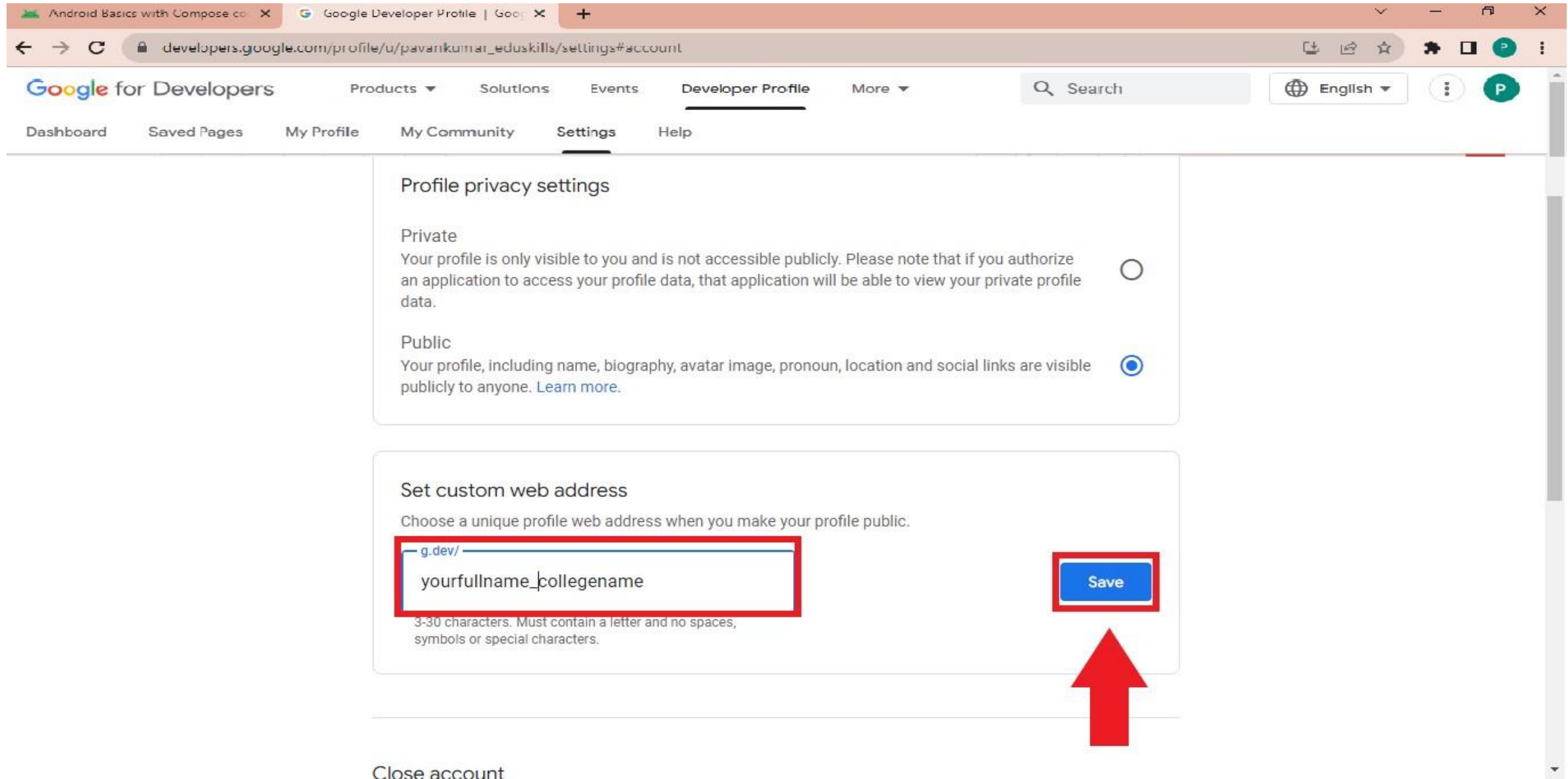
Set custom web address
Choose a unique profile web address when you make your profile public.

3-30 characters. Must contain a letter and no spaces, symbols or special characters.

Your changes have been saved.

[Close account](#)

Step: 20 Enter **your name & college name** as shown below and click on **save option**.



The screenshot shows the Google Developer Profile settings page. The browser address bar displays `developers.google.com/profile/u/pavanikumar_eduskills/settings#account`. The page header includes the Google for Developers logo and navigation links: Products, Solutions, Events, Developer Profile, and More. Below the header is a secondary navigation bar with Dashboard, Saved Pages, My Profile, My Community, Settings (highlighted), and Help. The main content area is titled 'Profile privacy settings' and shows two options: 'Private' (unselected) and 'Public' (selected). Below this is the 'Set custom web address' section, which instructs the user to 'Choose a unique profile web address when you make your profile public.' The input field contains the text `g.dev/yourfullname_collegename` and is highlighted with a red box. To the right of the input field is a blue 'Save' button, also highlighted with a red box and a large red arrow pointing to it. Below the input field, there is a note: '3-30 characters. Must contain a letter and no spaces, symbols or special characters.'

Close account

NOTE

Step:20 - Creates a google developer custom address(Google Developer Profile URL) to show case the google badges on online webpage.

URL would be: https://g.dev/ravikumar_ramcollege

Search the URL in google to see the profile and share it for internship evaluation.

Above given example doesn't exist

How to get AICTE internship certificate ?

Ans: Follow the steps given below:

1. Open the given link.

LINK: <https://internshipadmin.eduskillsfoundation.org/>

2. Enter the AICTE internship registered mail ID and submit the Public Google Developer Profile URL.

Note: Make sure you have earned all the badges as shown in above pages.



EduSkills



PREPARING
YOUTH
FOR THE FUTURE
OF WORK

*Thank
you*

