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## Cloud, APIs and Alerts > Interfacing Sensor over VPS

Suppose your parent has allotted a task to you to check the water level in the plant daily and water them if required. Isn't it very boring and tiresome? What if you get an SMS on your mobile telling that water level in your plant is very less and need water immediately. Sounds Interesting right!! But how can it be done?

This can be achieved with the help of Bolt and a third-party company named 'Twilio'.

So in this lesson, we will learn about Twilio and how to create an account on Twilio.

### Introduction to Twilio

Twilio is a third-party SMS functionality provider. It is a cloud communications platform as a service (PaaS) company. Twilio allows software developers to programmatically make and receive phone calls and also send and receive text messages using its web service APIs.

Please note that SMS delivery via a trial Twilio account is not guaranteed to be instant by Twilio. Also, note that SMS will not be sent to numbers which have DND(Do Not Disturb) turned ON.

### Creating an account on Twilio

**Step 1:** Open <https://www.twilio.com/> in browser.

**Step 2:** Click on [Get a Free API Key](#) button to sign up.

**Step 3:** Fill all the necessary details in SIGN UP form. Below is the screenshot of filled sign up form.



## Sign up for free

Strong

WHICH PRODUCT DO YOU PLAN TO USE FIRST?  

SMS

 ← Choose SMS option here

WHAT ARE YOU BUILDING?  

Account Notifications

 ← Choose account Notification option here

CHOOSE YOUR LANGUAGE  

Python

 ← Choose python as a language

POTENTIAL MONTHLY INTERACTIONS (OVER SMS, CHAT, VOICE, & VIDEO)  

Less than 100,000

☐ I'm not a robot






**Step 4:** To verify they will ask for your phone number. Choose India as an option in the dropdown and then enter your phone number.




We need to verify you're a human.

 ▼

+91

Phone Number

Verify via SMS

 Choose India here

We will send a verification code via **SMS** to number above

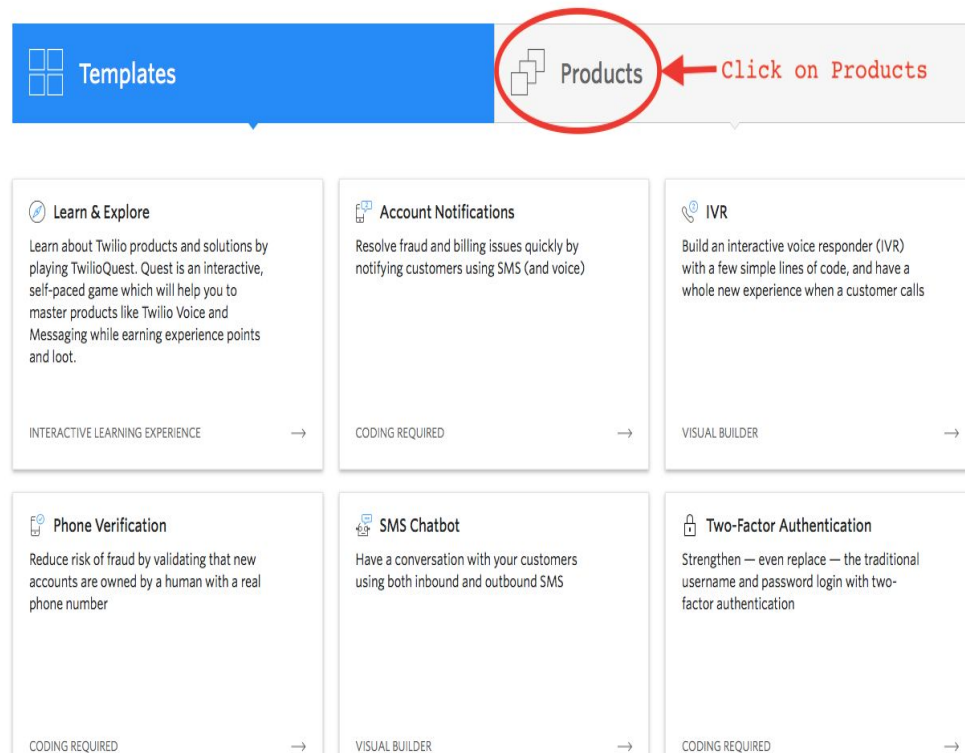
Or, we call you instead.

☒ The phone number you provide will be used for authentication when you login to Twilio Console. A Twilio onboarding specialist may also use this number to reach out with free onboarding support. If you do not want to be contacted at this phone number, please check this box.

**Step 5:** Click on "Products" as shown on the screen below,



## Create a Project



**Step 6:** Now enable the SMS services by clicking on two checkboxes for Programmable SMS and Phone Numbers as shown below.



## Create a Project

Templates

Products

Choose all that apply

COMMUNICATIONS CLOUD

**Programmable SMS**

Build intelligent SMS logic and apps in web applications over local, toll-free, and short-code numbers globally from one API.

☒

**1. Select this checkbox**

**Phone Numbers**

Instantly acquire local, national, mobile, and toll-free phone numbers in nearly 50 countries with one API.

☒

**2. Select this checkbox**

**Programmable Voice**

Twilio's voice application stack combines the power of advanced call control, global connectivity, and RESTful APIs. It's an all-in-one phone call powerhouse designed for instant scale, flexibility, and cost-effective communications.

☐

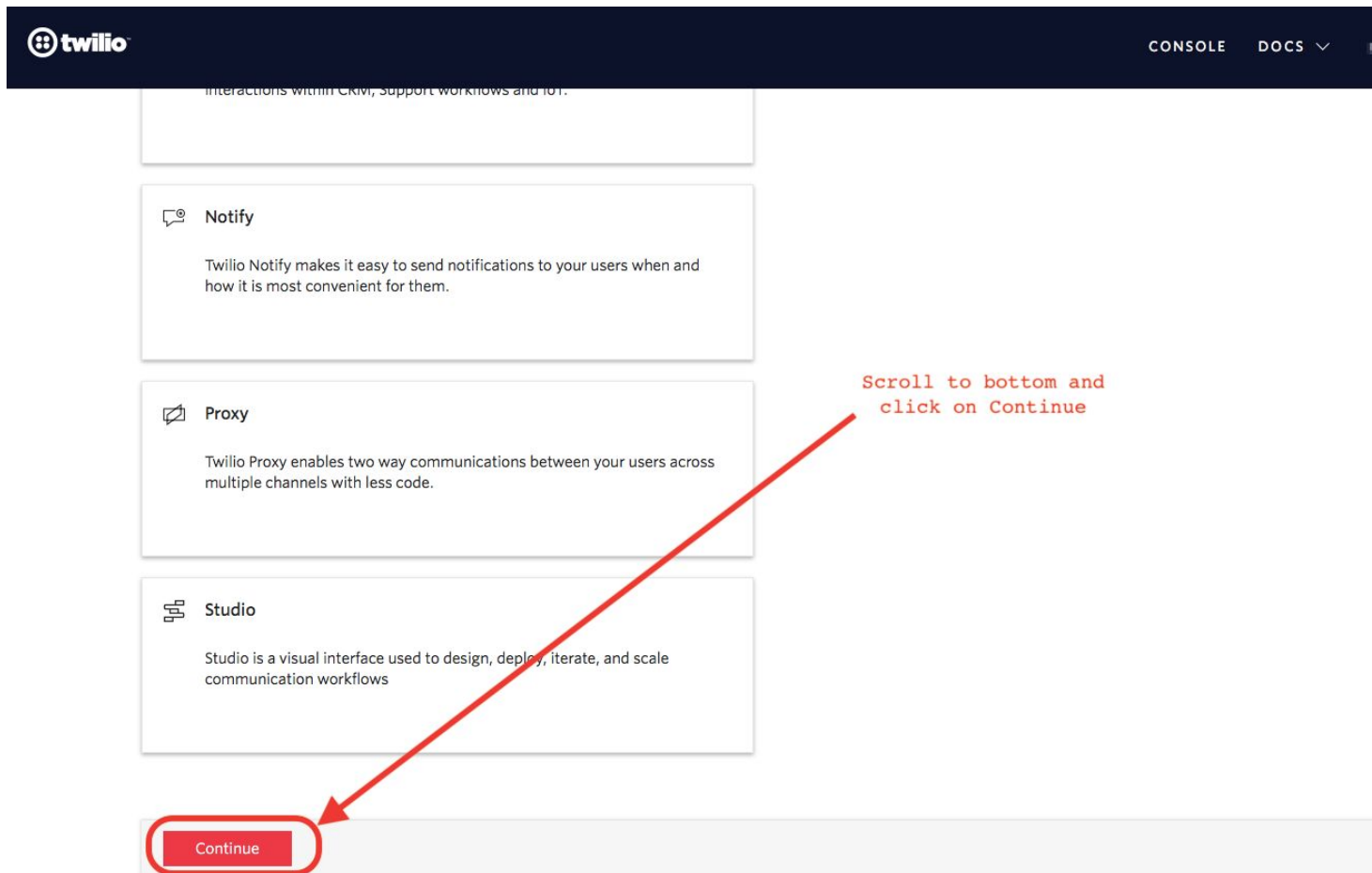
**Elastic SIP Trunking**

Instantly provision voice connectivity for IP-based communications infrastructure to connect to the PSTN, for making and receiving telephone calls to the 'rest of the world' via any broadband public or private connection.

☐

Continue

Once you have done this, scroll to the bottom of the screen and click on "Continue".



**Step 7:** Now, you will need to give a name for your project. I have given the name as My Project. Click on "Continue" once you have entered the project name.



Custom Project

Give your project a name

You can make changes later if you need to.

PROJECT NAME

1. Enter a project name

2. Click on Continue

[< Go Back](#) [Continue](#) [Skip Remaining Steps](#)

**Step 8:** Click on "Skip this step" when it asks you to Invite a Teammate.



Custom Project

Who do you want to build it with?

**You don't have any teammates yet**

Invite your team to this project. If you think other users would be interested in tracking your progress or can help you build it, you can invite them to Twilio with a variety of permissions. You can also manage the users associated with your project at any time from the Project Settings page.

For more information about managing users and project roles please visit our [Help center](#).

Invite a Teammate

Click to skip this step

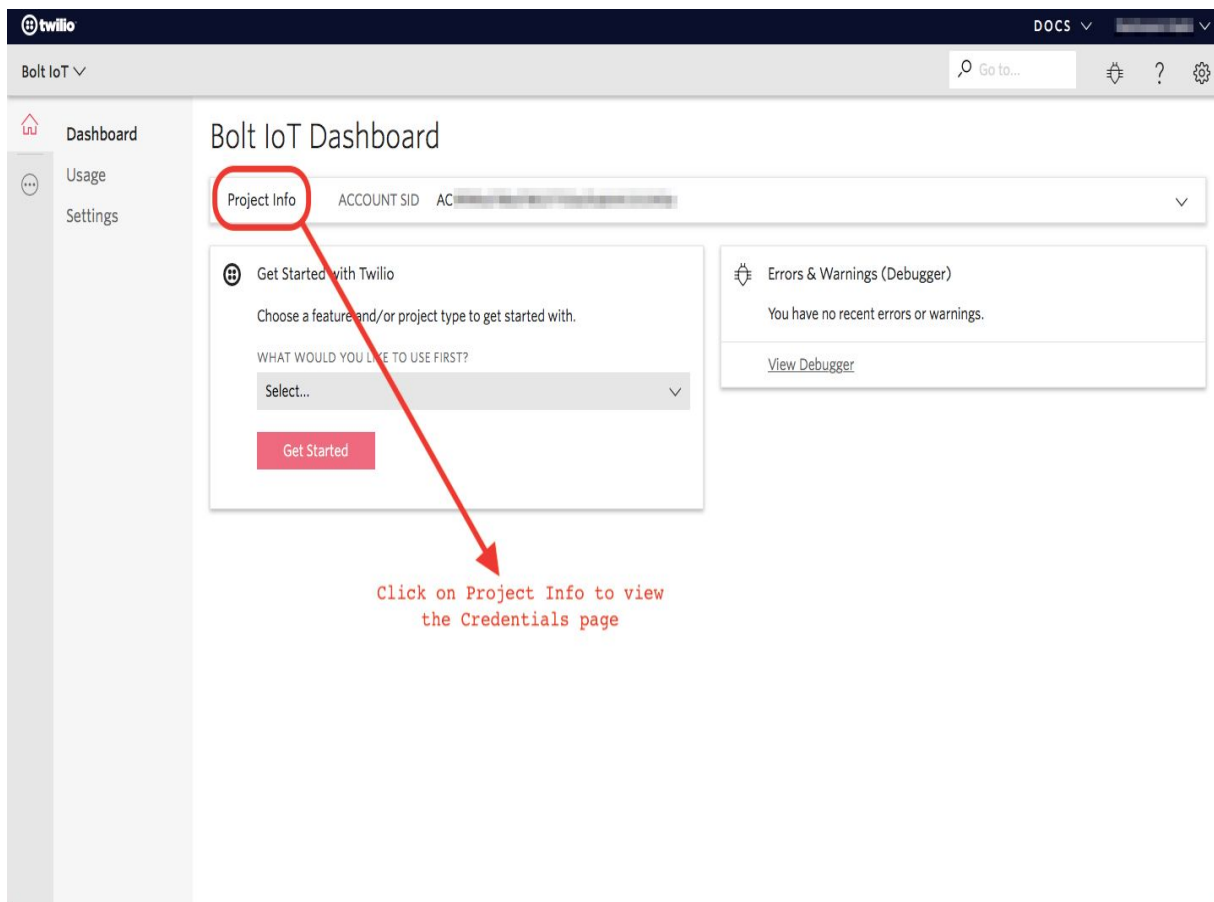
< Go Back

Invite Selected

Skip This Step

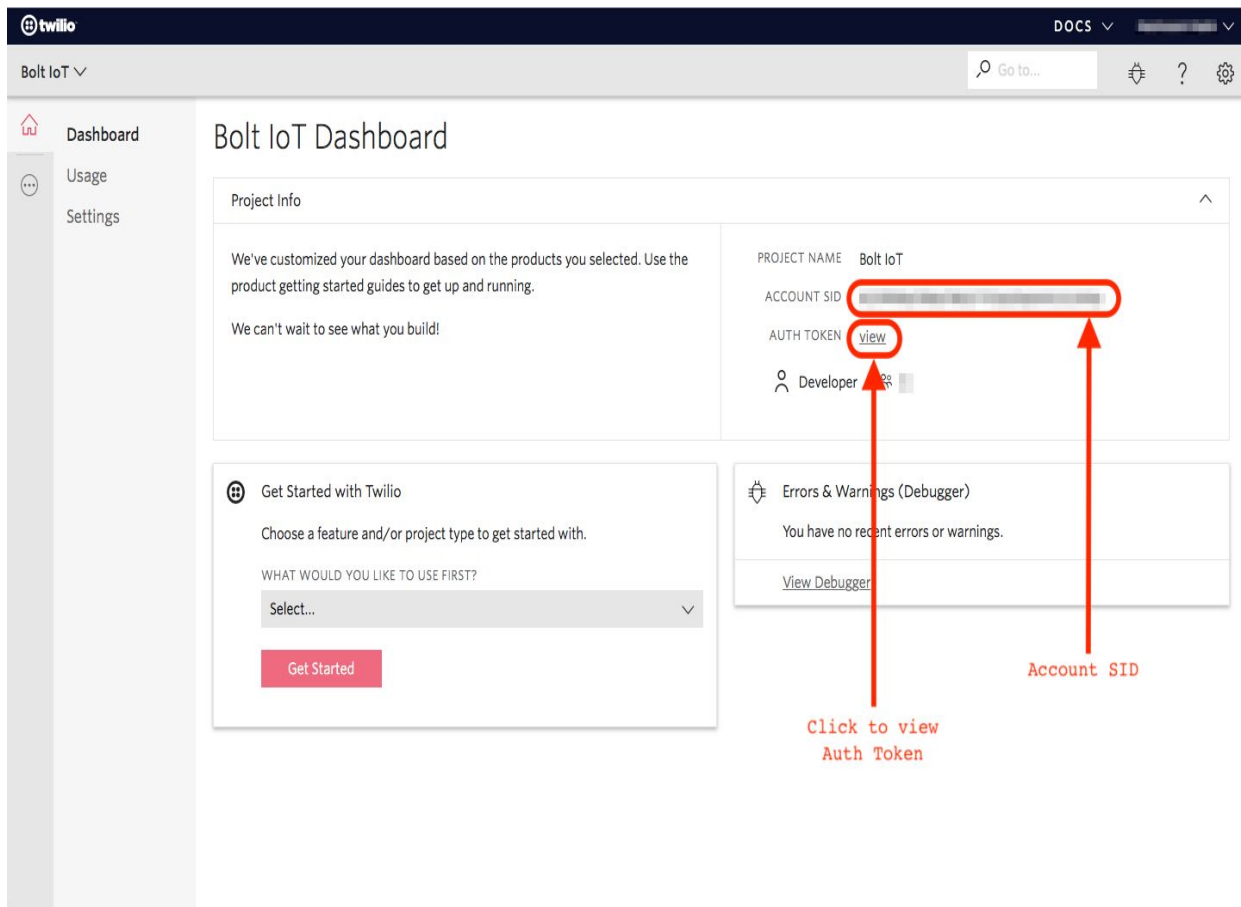
**Step 9:** Your project should be created at this point. Click on "Project Info" to view the account credentials which is required for your projects.





Click on Project Info to view  
the Credentials page

**Step 10:** You can view the Account SID and Auth token on this page. The Auth token is not visible by default, you can click on "view" button to make the Auth token visible as shown below. Copy both and save them somewhere securely.

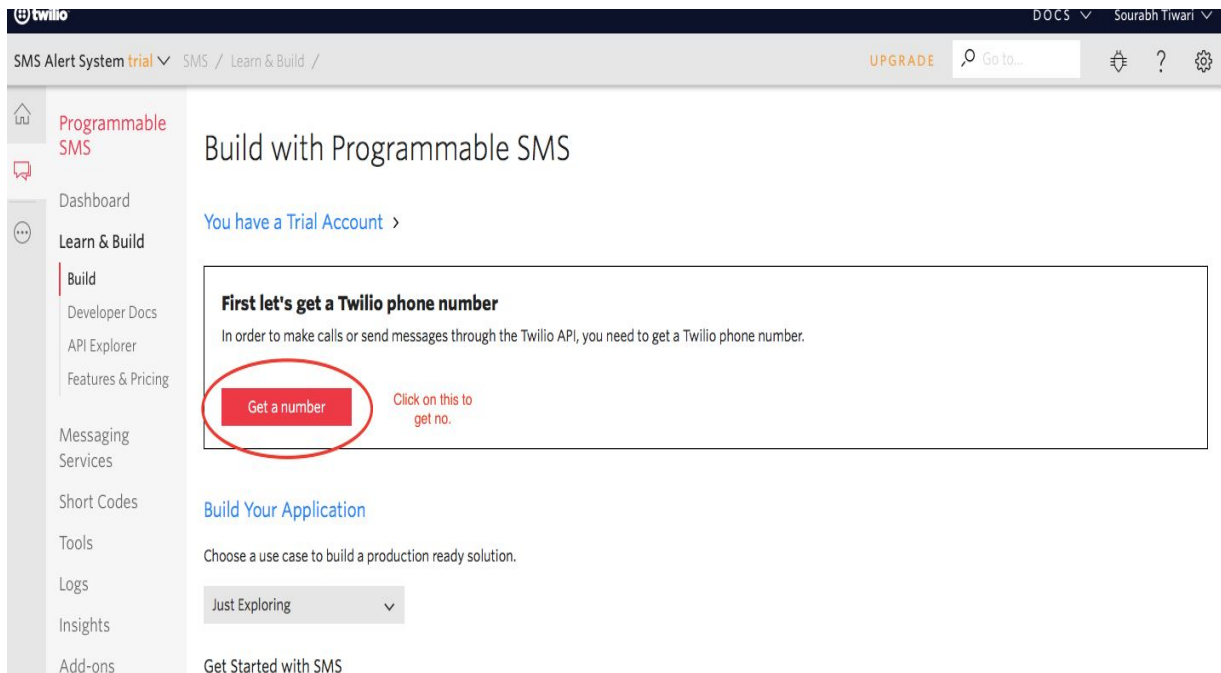


**Step 11:** From the drop-down menu, choose "Programmable SMS". Now click on **Get Started** button to generate phone number.

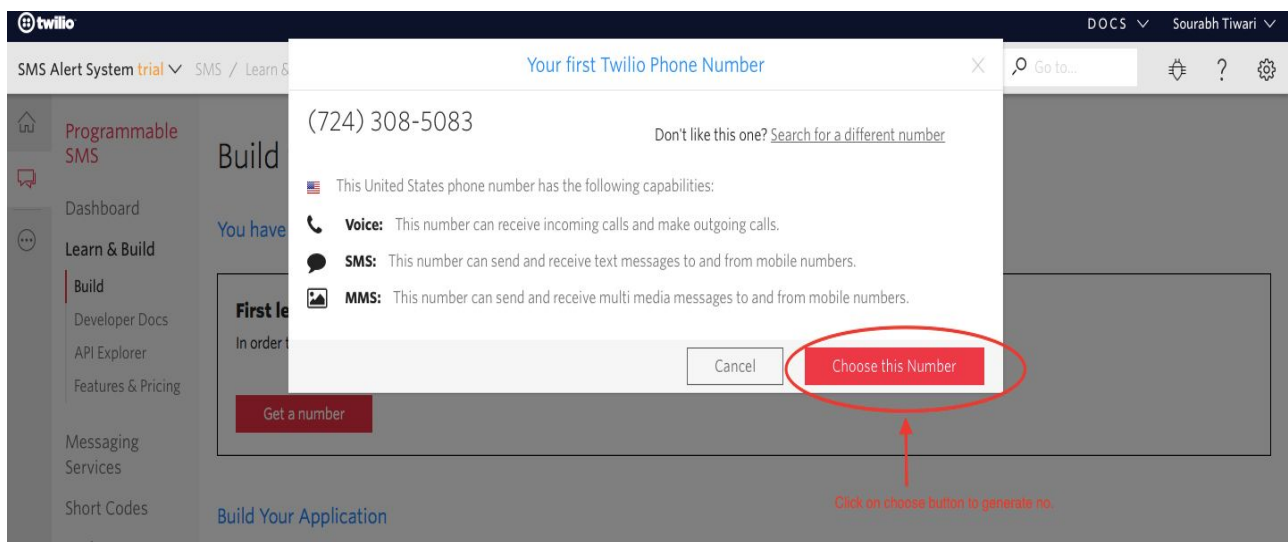


The screenshot shows the Twilio Bolt IoT Dashboard. The left sidebar contains links for Dashboard, Usage, and Settings. The main content area is titled 'Bolt IoT Dashboard'. It features a 'Project Info' section with details like Project Name (Bolt IoT), Account SID, Auth Token, and a 'Developer' role. Below this is a 'Get Started with Twilio' section with a dropdown menu labeled 'WHAT WOULD YOU LIKE TO USE FIRST?' set to 'Programmable SMS'. A red circle highlights the 'Get Started' button. To the right is an 'Errors & Warnings (Debugger)' section. Red arrows point from the text '1. Choose Programmable SMS' to the dropdown menu and from '2. Click on Get Started' to the 'Get Started' button.

**Step 12:** Click on **Get a number** button.

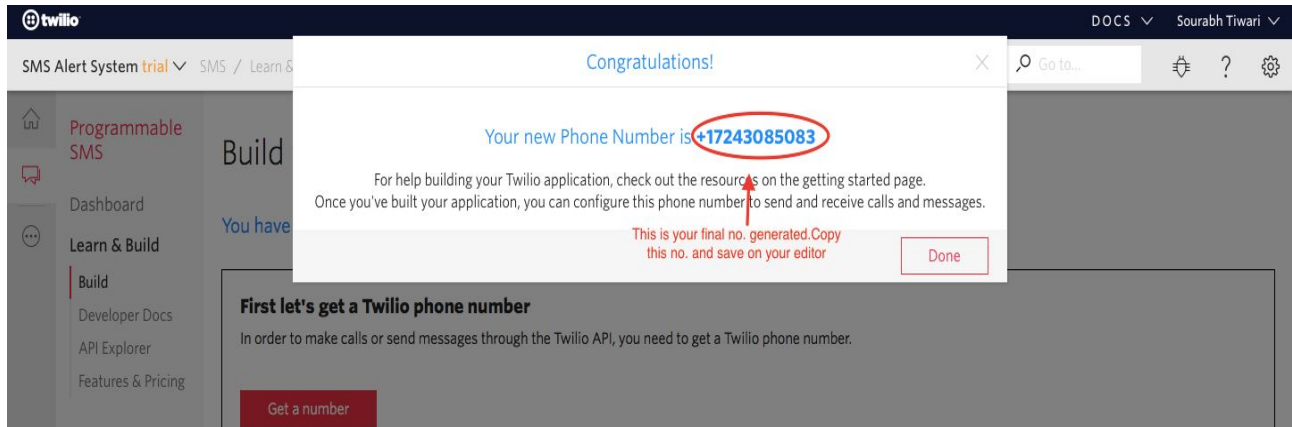


**Step 13:** Then a popup will appear. Click on **Choose this number** button.





**Step 14:** Then a popup will appear which will have the final number. Copy this number and save to notepad for future references.



That's it. You have successfully created the account on Twilio. In the next lesson, we will use Bolt Python library to create our own SMS Alert system.