**Title:** Introduction to API Development Using Flask and Python 3.X

**Duration:**  1-1:30 hours

**Course Motive and Importance:** For any website/mobile app, it is important for them to communicate with servers for either implementing Database CRUD Operations or getting inference from AI Models hosted on a cloud platform. APIs help us do that. Many people find it hard to work with APIs or develop APIs from the start, especially during hackathons where you’ve a strict time constraint. Thus, this course aims to solve this problem by helping participants build basic APIs for their web/mobile apps.

**Course Content:**

1. Why this bootcamp?
2. App Examples
3. What is an API? Why do we need an API?
4. What is a RestAPI? How is it different from other APIs?
5. Different Types of RestAPIs:- GET,POST,PUT,DELETE
6. Flask. Why Flask in Python? Flask vs Django.
7. Introduction to Postman and how to use it to test your APIs?
8. Simple Flask App Initiation (Code Along)
9. Simple GET Request with Flask (Code Along)
10. Simple POST Request with Flask (Code Along)
11. Working with Request Headers in Flask (Code Along)
12. Working with Request Body(Form Data/ JSON) in Flask (Code Along)
13. Working with Request Parameters/ URL Parameters in Flask (Code Along)
14. Working with Files in Requests with Flask (Code Along)
15. Working With AI Models in APIs
16. Using SSL/HTTPS for development/testing in Flask
17. Interacting with Flask APIs in different devices (Quick Introduction on how to rapidly call APIs in Android Apps, Websites)
18. Courses To Follow for In Depth Flask Tutorials (YouTube Channels and Playlists)
19. QnA