

# Weekly Progress Report

Name: Geet Ghai

Domain: Python Development

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**Week Ending: 01**

## **I. Overview:**

This week, the primary focus was on understanding USC\_TIA and contributing to Python projects. Additionally, efforts were made to leverage learning resources for skill enhancement.

## **II. Achievements:**

- Successfully integrated the Cutt.ly API into a Python script for URL shortening.
- Developed a function (shorten\_link) that accepts a full URL and a custom link name, sending these to the API and handling responses appropriately.

## **2. Python Project Contributions:**

### **Name of the project:- URL Shortener**

- Implemented error handling for API requests to manage various response scenarios, such as network errors and invalid input data
- Enhanced the script to provide clear feedback messages for different API status codes, improving the user experience..

## **3.Learning Python:**

- Acquired proficiency in essential Python libraries, such as Python, requests, numpy.
- Applied Python skills to real-world problems within USC\_TIA context.

## **III. Challenges:**

### **1. USC\_TIA Integration:**

- Faced challenges with common custom link names already being in use, resulting in status code 3 errors.
- Addressed this by modifying the script to suggest more unique custom names or provide informative feedback to the user.

### **2. Python Project Complexity:**

- Faced complexity in understanding during testing, requiring additional handling for potential key error exceptions. of the Python project.
- Seeking guidance to overcome challenges and enhance understanding.

## **IV. Learning Resources:**

### **1. USC\_TIA Documentation:**

- Utilized USC\_TIA official documentation for reference and troubleshooting.
- Attended relevant webinars and online tutorials to deepen understanding.

### **2. Python Learning Resources:**

- Engaged with python course from Intellipaat to strengthen Python skills.
- Participated in LeetCode and HackerRank to apply Python skills in real-world scenarios for practical application.

## **V. Next Week's Goals:**

### **1. USC\_TIA Enhancement:**

- Address integration challenges and explore advanced USC\_TIA features.
- Collaborate with peers to contribute to USC\_TIA improvement discussions.

### **2. Python Project Development:**

- Tackle more complex tasks within the Python project to increase contribution.
- Seek feedback from mentors and peers for continuous improvement.

## **VI. Additional Comments:**

*“Include any additional comments or observations regarding overall progress, collaboration, or notable experiences during the week.”*