

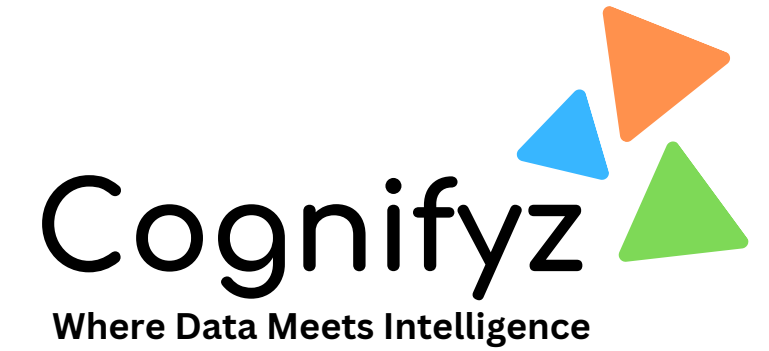


# INTERNSHIP PROGRAM

Python Development

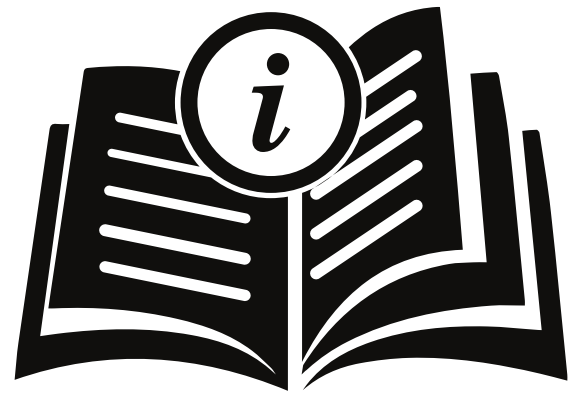


# About Us



- Cognifyz Technologies is a leading technology company that specializes in the dynamic field of data science and excels in delivering impactful projects and solutions.
- The company offers a wide range of products and services, including artificial intelligence (AI), machine learning (ML), and data analytics tools.
- Cognifyz Technologies also provides training programs to enhance skills and knowledge in these areas.
- The company focuses on delivering innovative and cutting-edge solutions to meet the evolving needs of businesses.





**During your internship tenure, it is important to keep in mind the following points**

- Enhance your professional presence by updating your LinkedIn profile. Share your achievements, such as the offer letter or internship completion certificate, which you received from us. Don't forget to mention and tag Cognifyz Technologies in your posts. You can use hashtags like #cognifyz #cognifyzTech #cognifyzTechnologies to showcase your affiliation.
- Maintain academic integrity and respect intellectual property. Plagiarism and copying code are serious offenses that can lead to the termination of your internship and subsequent restriction from future opportunities with us.
- Demonstrate your work by sharing a video showcasing the completion of your tasks on LinkedIn. Remember to tag Cognifyz Technologies in your post and use relevant hashtags like #cognifyz #cognifyzTech #cognifyzTechnologies to engage with our community.

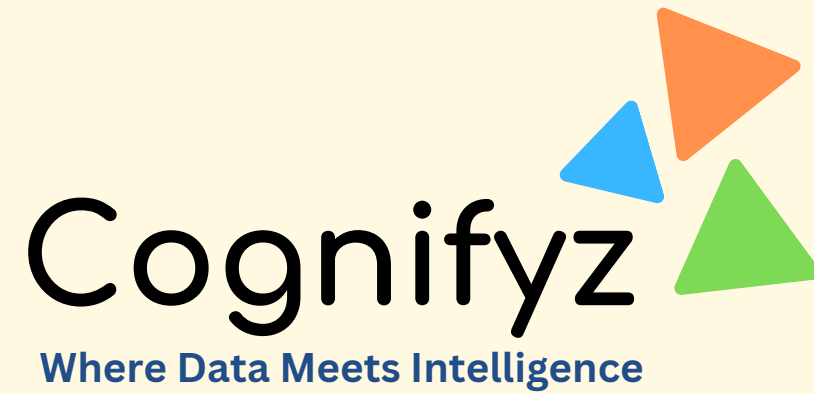


# SUBMISSION

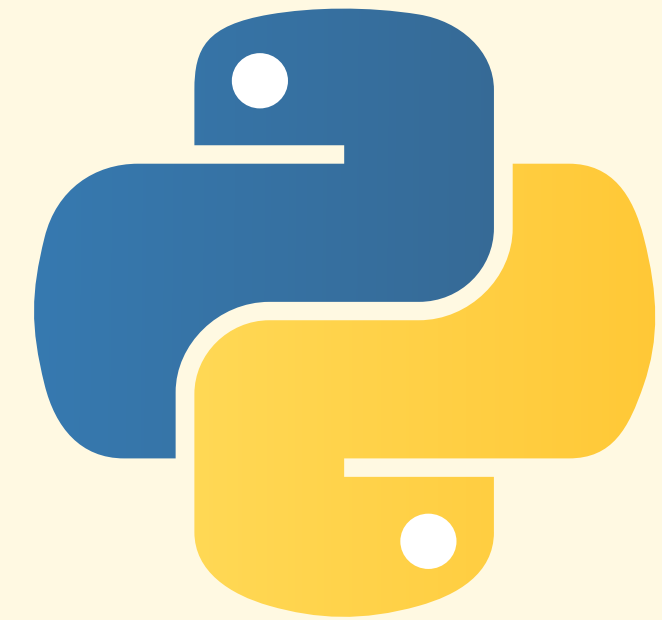
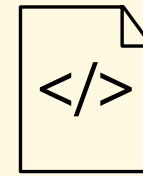


- Create a professional video showcasing your internship projects and achievements.
- Host the video on LinkedIn to provide proof of your work and establish credibility among your peers. Consider tagging Cognifyz Technologies in your posts to ensure they are notified of your work.
- A SUBMISSION FORM will be shared later. Till then please continue your task and make a separate file of each level.
- When posting the video on LinkedIn, include the following hashtags to maximize visibility and engagement: **#cognifyztechnologies** **#cognifyz** **#cognifyztech**. Additionally, depending on your internship domain.





# PYTHON DEVELOPMENT



# TASK LIST

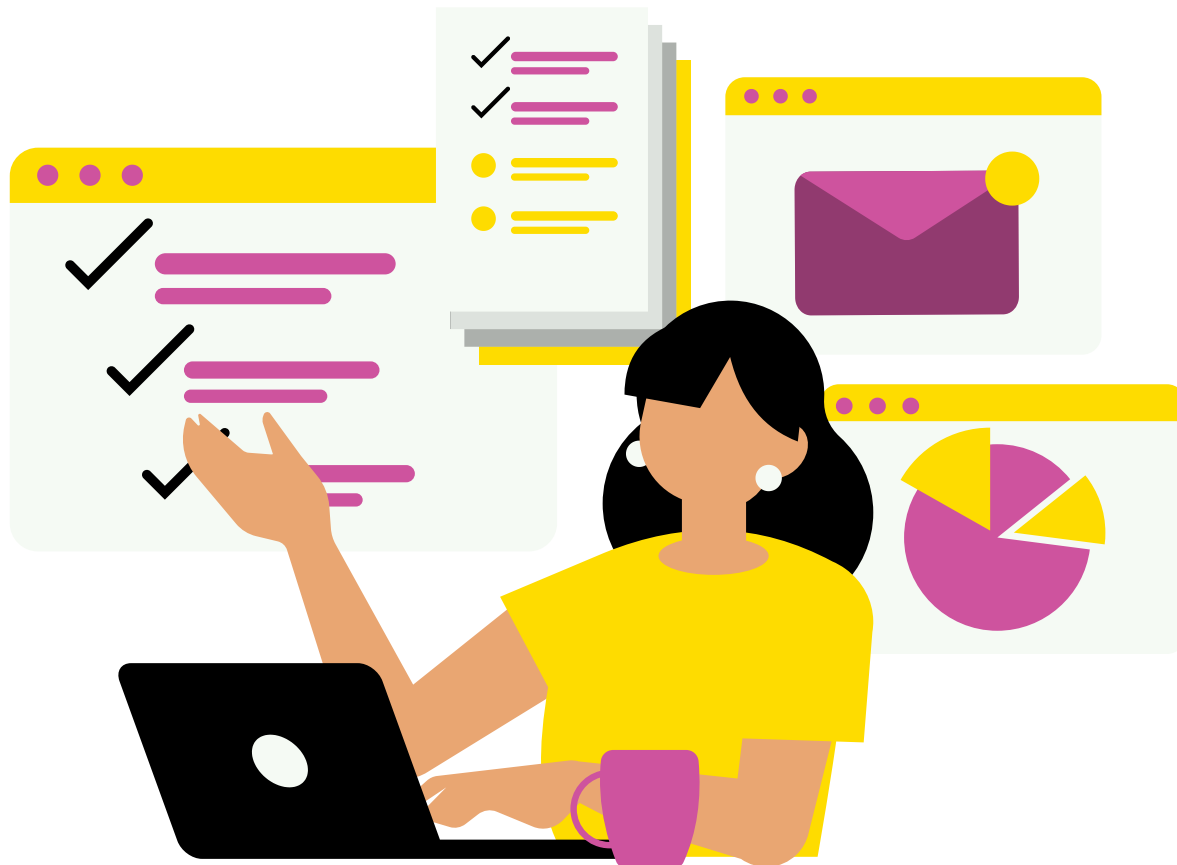
**Welcome to our exciting Python Development internship program! To complete this internship, you will have the chance to choose any 2 of 3 levels: Level 1, Level 2, or Level 3. We've designed these levels to cater to your convenience and ensure an engaging and rewarding experience. Additionally, the successful completion of Level 3 ( any one task out of 3) will further enhance your chances of receiving a stipend.**

# Level 1

## Task 1

### Task: String Reversal

Create a Python function that takes a string as input and returns the reverse of that string. For example, if the input is "hello," the function should return "olleh."





# Level 1

## Task 2

### Task: Temperature Conversion

Create a Python program that converts temperatures between Celsius and Fahrenheit. Prompt the user to enter a temperature value and the unit of measurement, and then display the converted temperature.



# Level 1

## Task 3

### Task: Email Validator

Develop a Python function that validates whether a given string is a valid email address. Implement checks for the format, including the presence of an "@" symbol and a domain name





# Level 1

## Task 4

### Task: Calculator Program

Create a Python program that acts as a basic calculator. It should prompt the user to enter two numbers and an operator (+, -, \*, /, %), and then display the result of the operation.



# Level 1

## Task 5

### Task: Palindrome Checker

Write a Python function that checks whether a given string is a palindrome. A palindrome is a word, phrase, or sequence that reads the same backward as forward (e.g., "madam" or "racecar").



# Level 2

## Task 1



### Task: Guessing Game

Write a Python program that generates a random number between 1 and 100. The user should then try to guess the number. The program should provide hints such as "too high" or "too low" until the correct number is guessed.



# Level 2

## Task 2



### Task: Number Guesser

Create a number guessing game where the program generates a random number between a specified range, and the user tries to guess it. Provide feedback to the user if their guess is too high or too low.



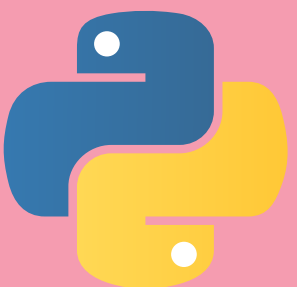
# Level 2

## Task 3



### Task: Password Strength Checker

Create a Python function that evaluates the strength of a password entered by the user. Implement checks for factors such as length, presence of uppercase and lowercase letters, digits, and special characters.



# Level 2

## Task 4



### Task: Fibonacci Sequence

Write a Python function that generates the Fibonacci sequence up to a given number of terms. The function should take an integer input from the user and display the Fibonacci sequence up to that number of terms.



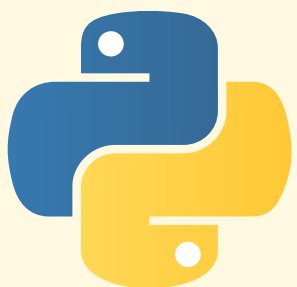
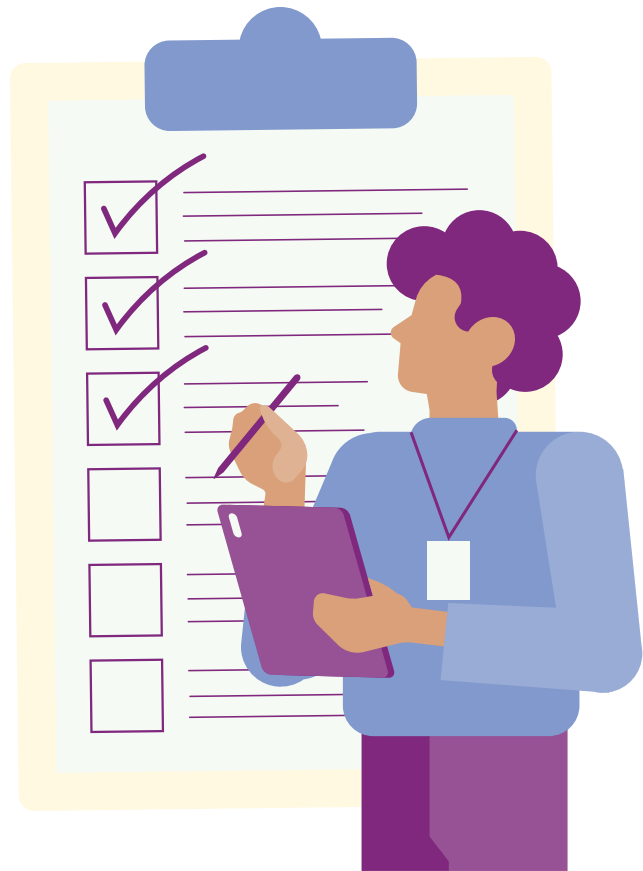


# Level 2

## Task 5

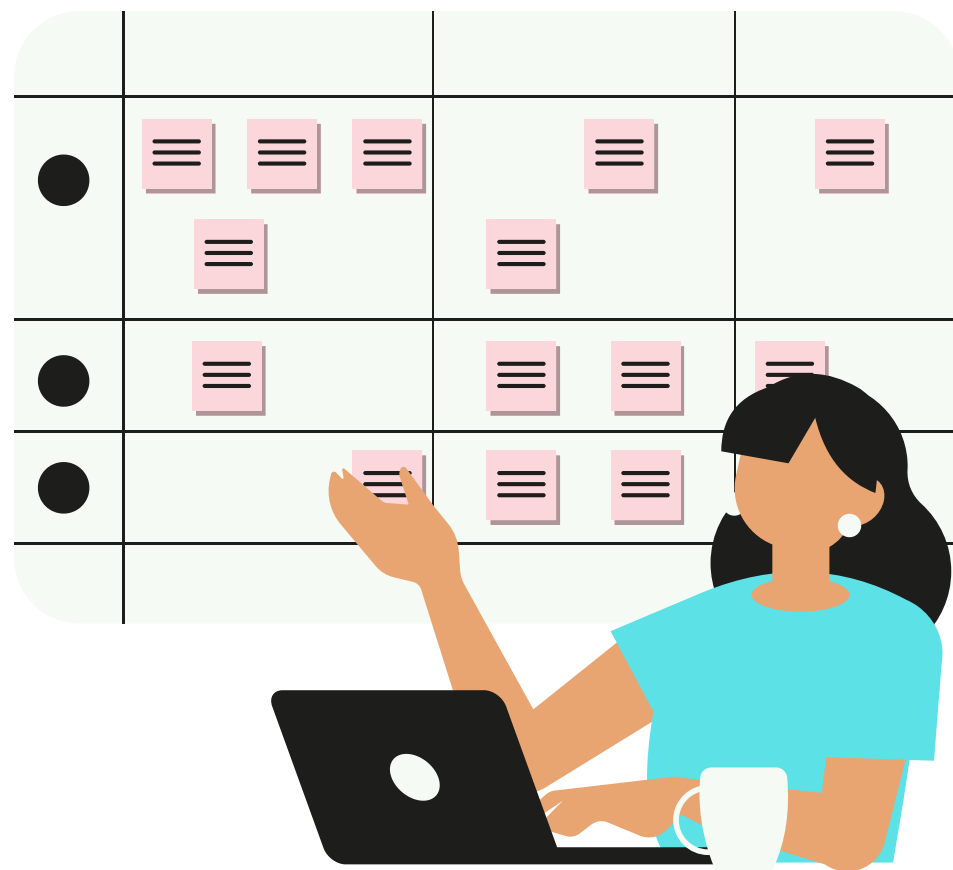
### Task: File Manipulation

Write a Python program that reads a text file and counts the occurrences of each word in the file. Display the results in alphabetical order along with their respective counts.



# Level 3

## Task 1



### Task: Build a Web Scraper

Develop a web scraper that extracts specific data from websites using libraries like BeautifulSoup or Scrapy. This task will improve their knowledge of web scraping techniques and handling HTML/XML data.



# Level 3

## Task 2

Task: Create a Data Visualization Tool

Build a tool that takes a dataset and generates interactive visualizations using libraries such as Matplotlib, Seaborn, or Plotly. This task will enhance their understanding of data visualization principles and plotting techniques.



# Level 3

## Task 3



### Task: Automate a Task

Identify a repetitive task, such as data processing, file management, or report generation, and develop a script to automate it using Python. This task will showcase their problem-solving skills and familiarity with Python's automation capabilities.



# How to Contact Us?

To find out more information,  
please contact us



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