



**CODTECH**

# INTERNSHIP

# TASKS



**PYTHON**



**NOTE:**

- **MUST ATTEMPT FOUR OUT  
FOUR TASKS**
- **SUBMIT BEFORE DEADLINE**
- **USE INTERNET RESOURCES**
- **FOLLOW GROUP UPDATES**

COMPLETION CERTIFICATE WILL BE  
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END DATE .

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# INTERNSHIP

## TASK -1



### API INTEGRATION AND DATA VISUALIZATION

#### INSTRUCTIONS:



- USE PYTHON TO FETCH DATA FROM A PUBLIC API (E.G., OPENWEATHERMAP) AND CREATE VISUALIZATIONS USING MATPLOTLIB OR SEABORN.
- DELIVERABLE: A SCRIPT AND A VISUALIZATION DASHBOARD



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## TASK -2



### AUTOMATED REPORT GENERATION

#### INSTRUCTIONS:



- DEVELOP A SCRIPT THAT READS DATA FROM A FILE, ANALYZES IT, AND GENERATES A FORMATTED PDF REPORT USING LIBRARIES LIKE FPDF OR REPORTLAB.
- DELIVERABLE: A SCRIPT AND A SAMPLE REPORT.
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## TASK -3



### AI CHATBOT WITH NLP

#### INSTRUCTIONS:



- BUILD A CHATBOT USING NATURAL LANGUAGE PROCESSING LIBRARIES LIKE NLTK OR SPACY, CAPABLE OF ANSWERING USER QUERIES.
- DELIVERABLE: A PYTHON SCRIPT AND A WORKING CHATBOT.

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## TASK -4



### MACHINE LEARNING

#### MODEL

#### IMPLEMENTATION

##### INSTRUCTIONS:



- CREATE A PREDICTIVE MODEL USING SCIKIT-LEARN TO CLASSIFY OR PREDICT OUTCOMES FROM A DATASET (E.G., SPAM EMAIL DETECTION).
- DELIVERABLE: A JUPYTER NOTEBOOK SHOWCASING THE MODEL'S IMPLEMENTATION AND EVALUATION.

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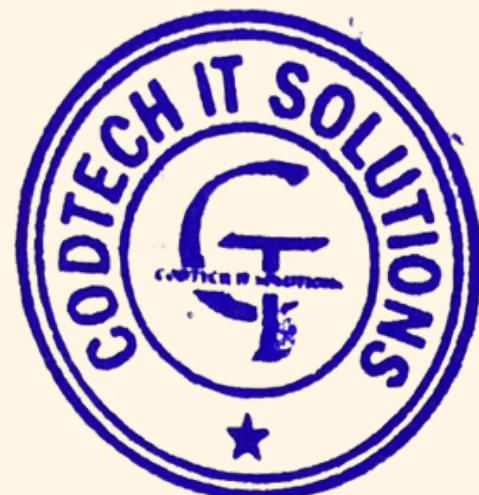
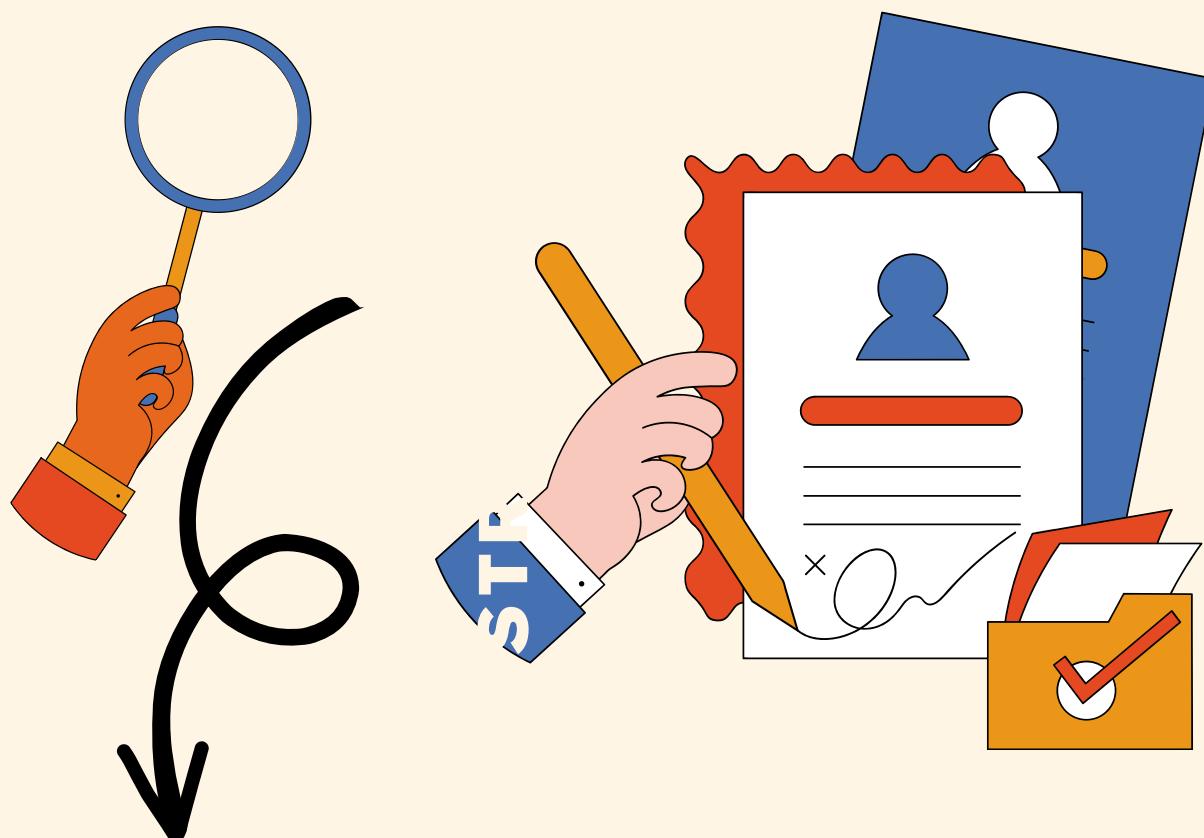
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# INSTRUCTIONS

- **STORE ALL YOUR WORK-RELATED CODE AND FILES IN A GITHUB REPOSITORY.**
- **MAINTAIN PROPER COMMENTING IN YOUR CODE FOR BETTER UNDERSTANDING AND READABILITY.**
- **USE RESOURCES LIKE YOUTUBE, GOOGLE, AND CHATGPT TO HELP YOU COMPLETE TASKS EFFICIENTLY.**
- **FOLLOW THE VIDEO GUIDANCE PROVIDED IN WHATSAPP WHILE SUBMITTING YOUR TASKS.**
- **COMPLETE ALL FOUR TASKS AND SUBMIT THEM WITHIN THE DEADLINE WHILE WORKING AT YOUR CONVENIENCE.**



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