



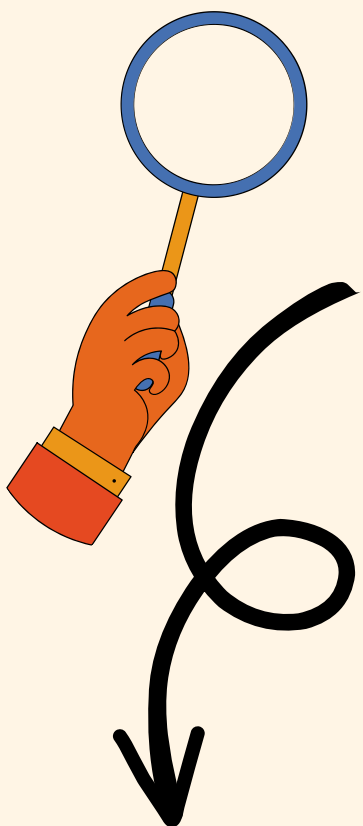
CODTECH

INTERNSHIP





TASKS



PYTHON



NOTE:

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

**COMPLETION CERTIFICATE WILL BE
ISSUED ON YOUR INTERNSHIP
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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INTERNSHIP

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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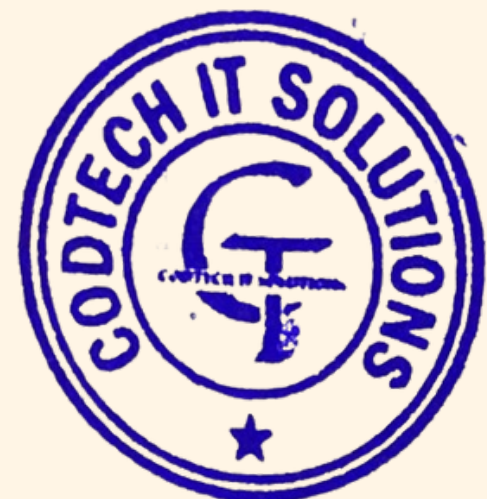
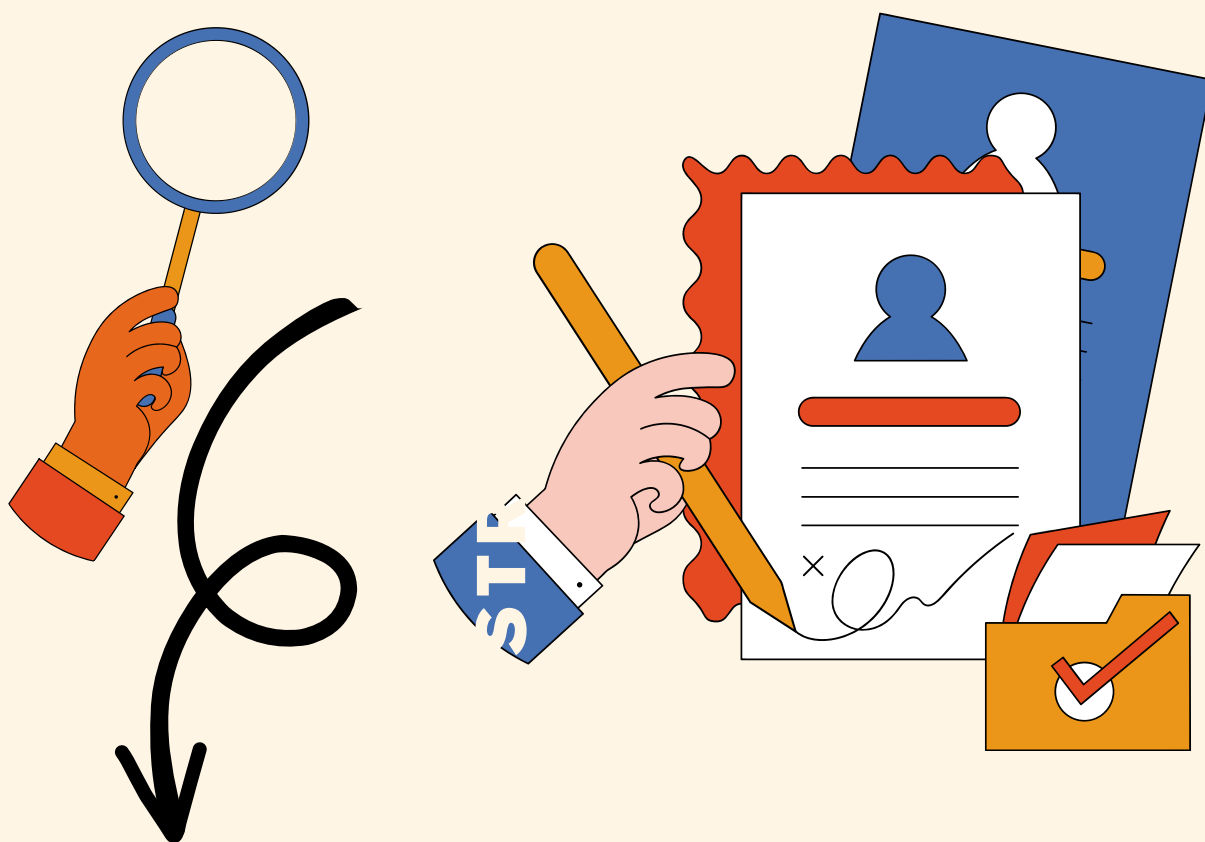
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INSTRUCTIONS

- **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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END DATE .**

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