



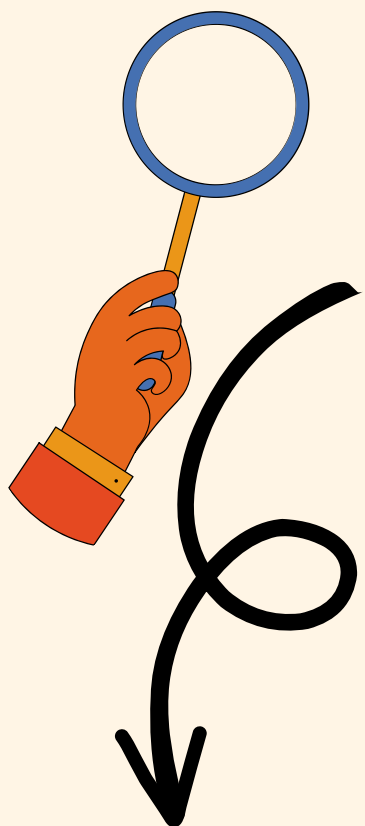
CODTECH

INTERNSHIP





TASKS



**DATA
SCIENCE**



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



DATA PIPELINE DEVELOPMENT

INSTRUCTIONS:



- **CREATE A PIPELINE FOR DATA PREPROCESSING, TRANSFORMATION, AND LOADING USING TOOLS LIKE PANDAS AND SCIKIT-LEARN**
- **DELIVERABLE: A PYTHON SCRIPT OR NOTEBOOK AUTOMATING THE ETL PROCESS.**

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TASK -2



DEEP LEARNING PROJECT

INSTRUCTIONS:



**IMPLEMENT A DEEP LEARNING MODEL FOR
IMAGE CLASSIFICATION OR NATURAL
LANGUAGE PROCESSING USING
TENSORFLOW OR PYTORCH**

**DELIVERABLE: A FUNCTIONAL MODEL
WITH VISUALIZATIONS OF RESULTS.**

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TASK -3



END-TO-END

DATA SCIENCE

PROJECT



INSTRUCTIONS:

DEVELOP A FULL DATA SCIENCE PROJECT, FROM DATA COLLECTION AND PREPROCESSING TO MODEL DEPLOYMENT USING FLASK OR FASTAPI.

DELIVERABLE: A DEPLOYED API OR WEB APP SHOWCASING THE MODEL'S FUNCTIONALITY.

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TASK -4



OPTIMIZATION MODEL

INSTRUCTIONS:



SOLVE A BUSINESS PROBLEM USING OPTIMIZATION TECHNIQUES (E.G., LINEAR PROGRAMMING) AND PYTHON LIBRARIES LIKE PULP

DELIVERABLE: A NOTEBOOK DEMONSTRATING THE PROBLEM SETUP, SOLUTION, AND INSIGHTS.

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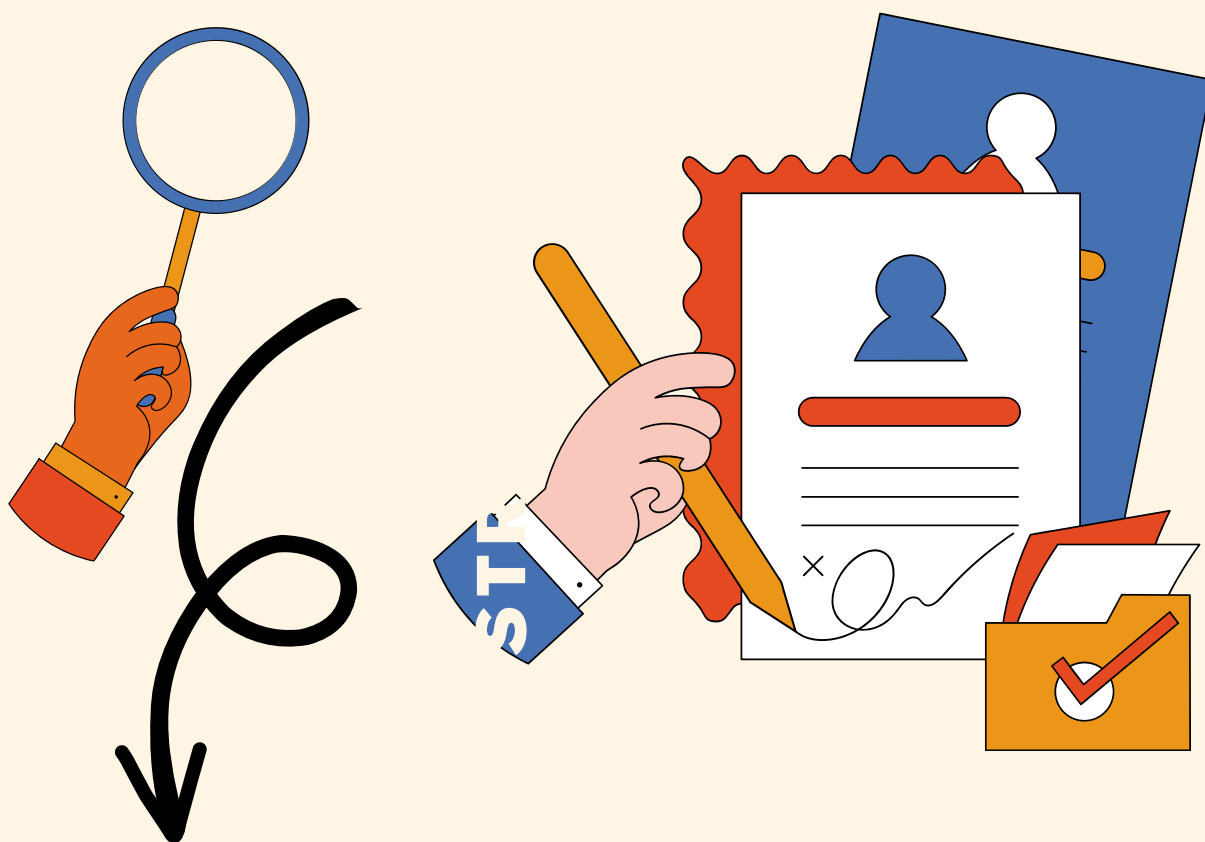
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INSTRUCTIONS

- **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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