



CODTECH

INTERNSHIP

TASKS



MACHINE LEARNING



NOTE:

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

COMPLETION CERTIFICATE WILL BE
ISSUED ON YOUR INTERNSHIP
END DATE.

CODTECH



CODTECH

INTERNSHIP

TASK -1



DECISION TREE IMPLEMENTATION

INSTRUCTIONS:



- BUILD AND VISUALIZE A DECISION TREE MODEL USING SCIKIT-LEARN TO CLASSIFY OR PREDICT OUTCOMES ON A CHOSEN DATASET.

- DELIVERABLE: A NOTEBOOK WITH MODEL VISUALIZATION AND ANALYSIS.

COMPLETION CERTIFICATE WILL BE ISSUED ON YOUR INTERNSHIP END DATE.

CODTECH



CODTECH

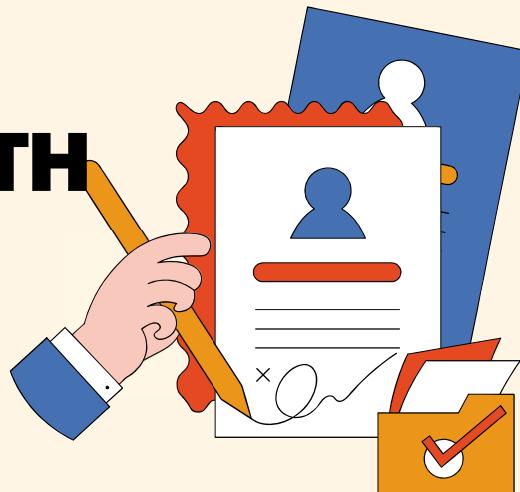
INTERNSHIP

TASK -2



SENTIMENT ANALYSIS WITH NLP

INSTRUCTIONS:



- PERFORM SENTIMENT ANALYSIS ON A DATASET OF CUSTOMER REVIEWS USING TF-IDF VECTORIZATION AND LOGISTIC REGRESSION.
- DELIVERABLE: A JUPYTER NOTEBOOK SHOWCASING PREPROCESSING, MODELING, AND SENTIMENT EVALUATION

COMPLETION CERTIFICATE WILL BE ISSUED ON YOUR INTERNSHIP END DATE .

CODTECH



CODTECH

INTERNSHIP

TASK -3



IMAGE CLASSIFICATION MODEL

INSTRUCTIONS:



- BUILD A CONVOLUTIONAL NEURAL NETWORK (CNN) FOR IMAGE CLASSIFICATION USING TENSORFLOW OR PYTORCH.
- DELIVERABLE: A FUNCTIONAL MODEL WITH PERFORMANCE EVALUATION ON A TEST DATASET.

COMPLETION CERTIFICATE WILL BE ISSUED ON YOUR INTERNSHIP END DATE.

CODTECH



CODTECH

INTERNSHIP

TASK -4



RECOMMENDATION SYSTEM

INSTRUCTIONS:



- BUILD A RECOMMENDATION SYSTEM
USING COLLABORATIVE FILTERING
OR MATRIX FACTORIZATION
TECHNIQUES.**

- DELIVERABLE: A NOTEBOOK OR APP
SHOWCASING RECOMMENDATION
RESULTS AND EVALUATION METRICS.**

**COMPLETION CERTIFICATE WILL BE
ISSUED ON YOUR INTERNSHIP
END DATE .**

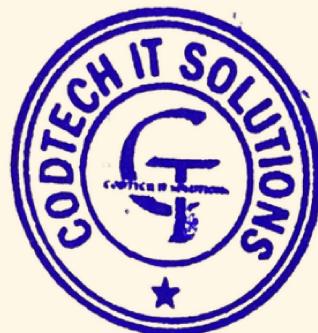
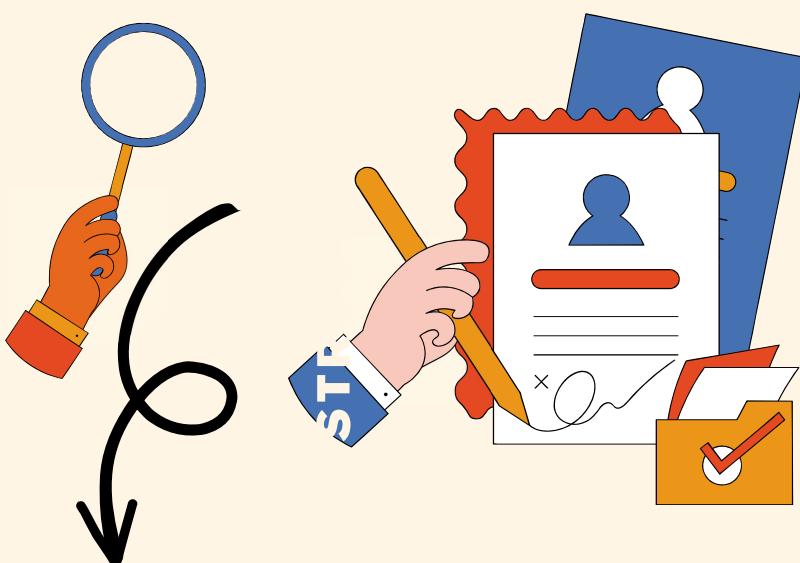
CODTECH



CODTECH

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.**



COMPLETION CERTIFICATE WILL BE ISSUED ON YOUR INTERNSHIP END DATE .

CODTECH