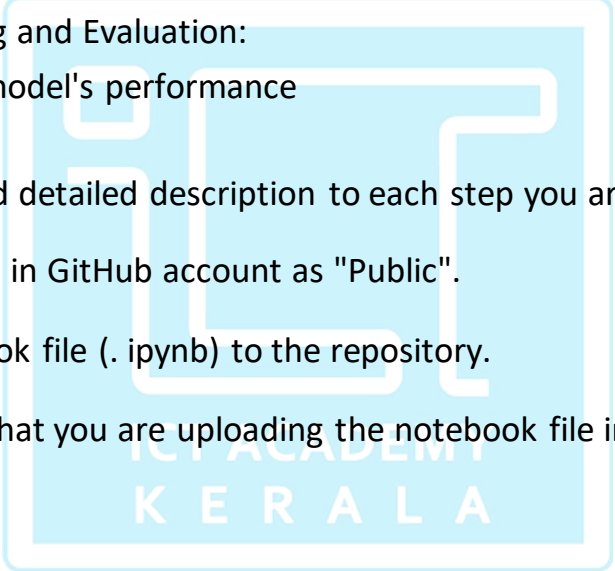**Certified Specialist in Machine Learning and Artificial Intelligence**

Emotion Detection in Twitter Data using NLP Techniques

You have received a dataset of Twitter posts (tweets) labelled with specific emotions. Your task is to develop an emotion detection model using natural language processing (NLP) techniques. The goal is to accurately classify tweets into different emotion categories such as joy, sadness, anger, fear, or surprise.

To accomplish this, you need to follow the below steps:

- Data Preprocessing:
- Feature Extraction:
- Model Building and Evaluation:
- Evaluate the model's performance

- Give headings and detailed description to each step you are doing.

• Create a repository in GitHub account as "Public".

• Upload the notebook file (. ipynb) to the repository.

• Please make sure that you are uploading the notebook file including the

outputs as well.

• Share the link of this notebook from GitHub in the online text editor

provided in Paatshala.

• Click here for the dataset