

SIT112 - TASK COMPLETION REPORT

Important note 1: Please **do not** include Python code in this report. It would be acceptable though to make brief references to function names or different parts of the task's notebook when needed.

Important note 2: Please **do not** leave any response field empty; if not applicable, enter NA.

1. TASK SUMMARY

Task Name (abbreviation)	your name (student ID)	your deakin email
High Distinction (HD1)	Ifal Iqbal(BSCP CS 63 136)	iiqbal176@cicracampus.net

2. TASK DESCRIPTION

Item	Response
What was the objective(s) of the task?	The objective of this task was to generate youtube data using api and clean the data and prepare for analysis. .
What kind of data did you work with?	The task involved analyzing two datasets: one the comments data which contains comments for videos and channels and the other is the videos data which contain the duration, like etc..
Briefly describe the data science task you worked on.	The data was cleaned, extracted, used to classify sentiments, aggregated and prepared for analysis, and a bar plot was created to visualize the monthly positive, negative and neutral sentiments in the video title and comments .

3. TECHNICAL SKILLS

Item	Response
What technical skills did you use during the task?	I used several technical skills during the task, including data cleaning, data preparation (converting column types), data classification(identifying the sentiments), and data visualization (creating a bar plot).
list any challenges or obstacles you faced while working on the task and how you overcame them.	NA

4. DATA CLEANING AND PREPARATION (ENTER NA WHEN NOT APPLICABLE)

Item	Response
What steps did you take to clean and prepare the data?	I converted the columns to the appropriate column data types. created new columns and added weekly and monthly time calculations.
Did you encounter any issues with the data during this process? How did you address these issues with the data?	NA

5. DATA ANALYSIS (ENTER NA WHEN NOT APPLICABLE)

Item	Response
How did you analyze the data?	I analyzed the data by classifying sentiments as positive, negative and neutral for video titles and comments.
Did you use any visualization techniques to better understand the data?	Yes, I used a bar plot to visualize the count of positive, negative and neutral sentiments for each month in a year.
What insights did you gain from this analysis?	From the analysis, I identified the positive, negative and neutral sentiments on the video title and column.

6. BASIC REQUIREMENTS FOR THE TASK

Item	Response (Yes/No)
Are you confident to execute the Python code in this task and explain the output?	Yes
Are you confident to explain what each line of code does and how it contributes to the solution(s)?	Yes
Are you confident to rewrite or modify the code after completing this task? <ul style="list-style-type: none"> For pass tasks: with guidance, no time limit. For credit tasks: with limited guidance, no time limit. For distinction tasks: independently, no time limit. For high distinction tasks: independently, in a limited time. 	Yes

7. CODE ATTACHMENT (NOT APPLICABLE TO THE PASS TASKS – ENTER NA)

Item	Response (Yes/no/NA)
Have you attached the notebook file that contains your solutions (Python code) for this task?	YES
Have you executed all the cells in your attached notebook and ensured there is no error? Please note your submission will not be flagged as complete if your attached notebook contains any error.	YES

8. VIDEO ATTACHMENT (NOT APPLICABLE TO THE PASS/CREDIT TASKS: NA)

Item	Response (the video link/NA)
Provide the link to the video recording that presents your completed task. This is only for Distinction and High Distinction tasks. Enter NA for Pass/Credit tasks.	YES

9. ACKNOWLEDGEMENT

By submitting this report, I acknowledge that:

- my responses are accurate and are my own words.
- I have met all the Basic requirements of the task (listed in section 6).
- I have read and fully understood the assessment guideline of the unit.
- this report does not exceed 3 pages.
- this report does not include code except brief references to function names or different parts of the task's notebook.
- my submission does not contain any credentials (e.g., password, API Key, etc) or personal information.

Important note 3: If you have answered NO to any of the questions in sections 6, please reconsider submitting your report; ask help from your tutor.

Add your Name AND SIGNATURE here: YES