# Python Task 2

## Question 2: Car Type Count Calculation

import pandas as pd

def get\_type\_count(dataset):

# Add a new categorical column 'car\_type' based on values of the column 'car'

conditions = [

(dataset['car'] <= 15),

(dataset['car'] > 15) & (dataset['car'] <= 25),

(dataset['car'] > 25)

]

choices = ['low', 'medium', 'high']

dataset['car\_type'] = np.select(conditions, choices, default='Unknown')

# Calculate the count of occurrences for each 'car\_type' category

type\_counts = dataset['car\_type'].value\_counts().to\_dict()

# Sort the dictionary alphabetically based on keys

type\_counts = dict(sorted(type\_counts.items()))

return type\_counts

# Example usage:

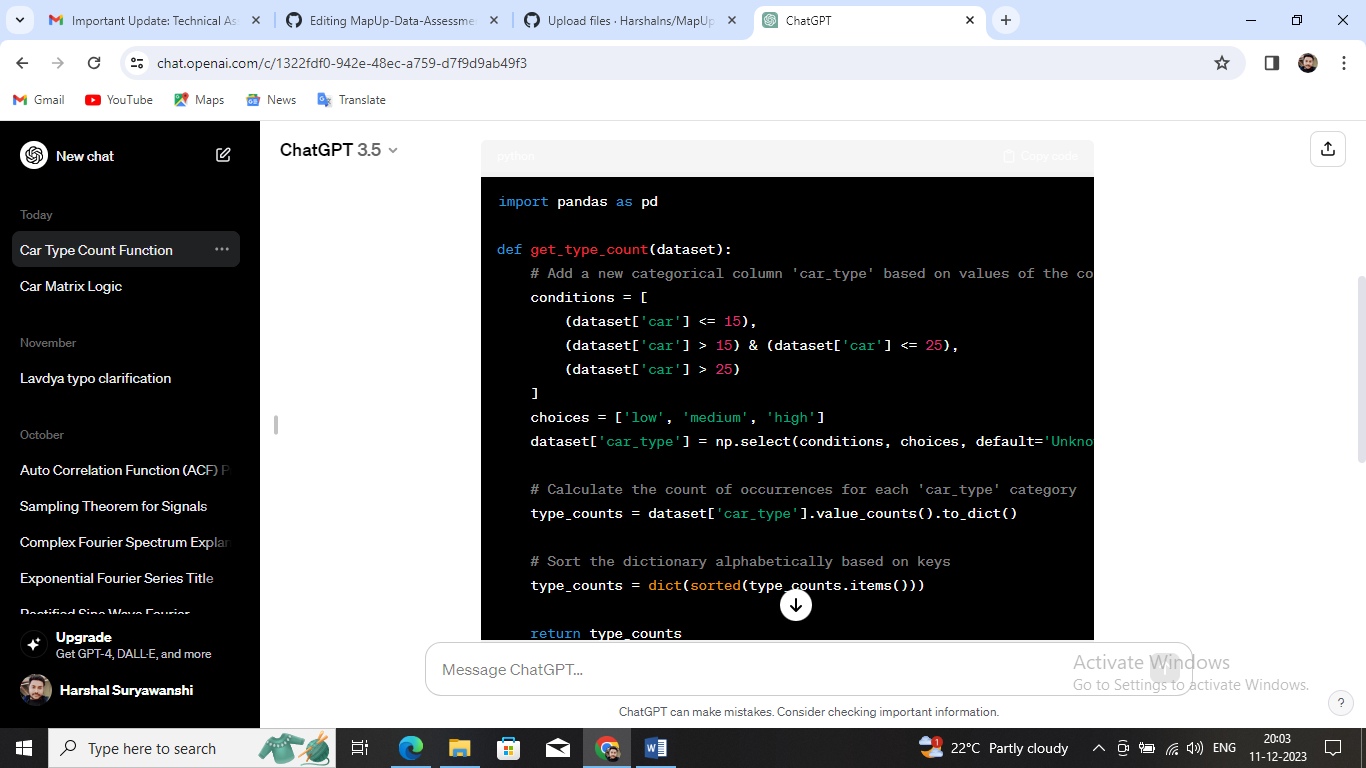
# Load the dataset from the CSV file

dataset = pd.read\_csv('dataset-1.csv')

# Call the function and print the result

result = get\_type\_count(dataset)

print(result)

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