

**WQD7012 APPLIED MACHINE LEARNING**

**OCCURRENCE 3**

**SEMESTER 2 SESSION 2024/2025**

***TUTORIAL 5***

**NAME:**

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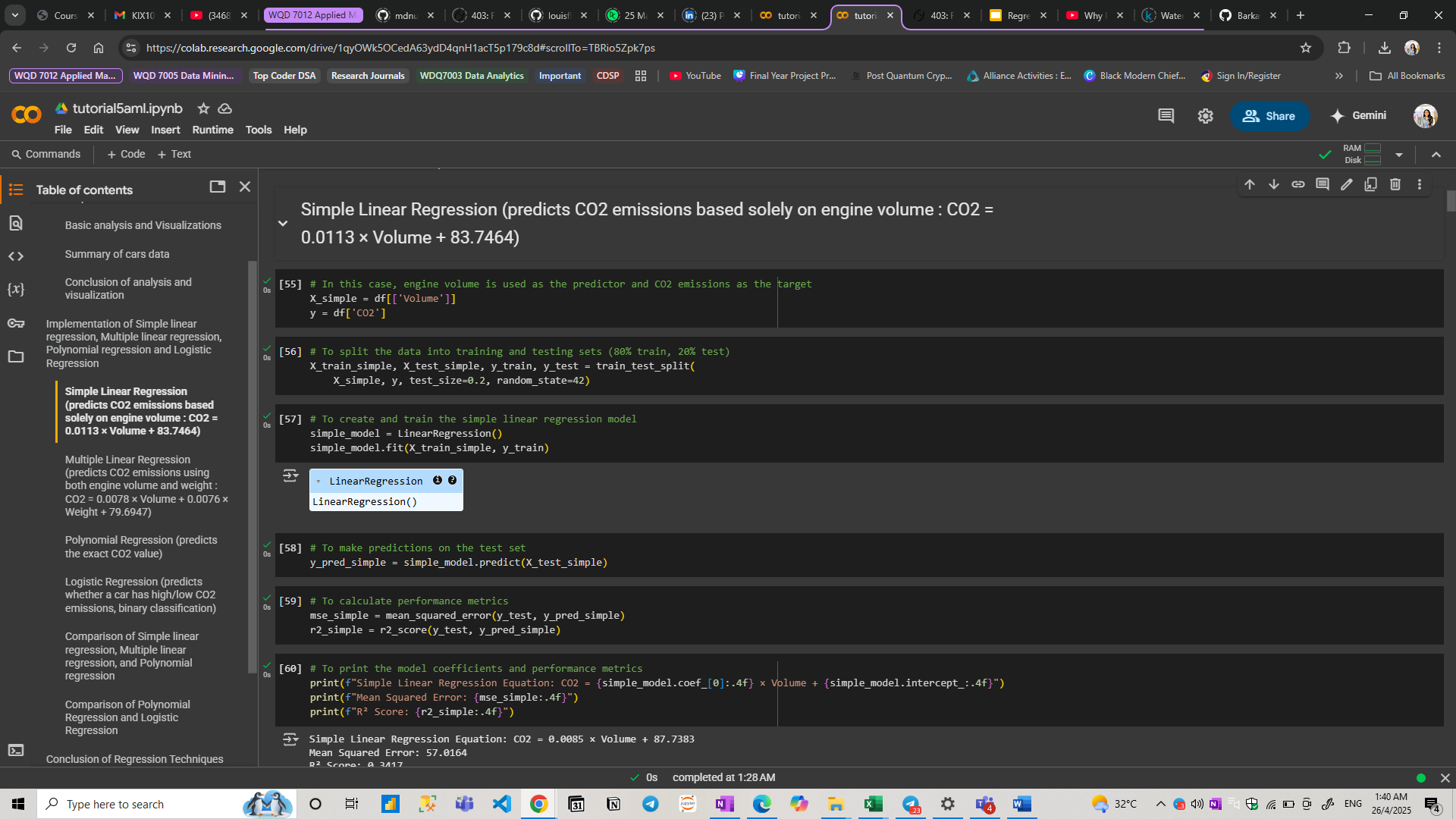
**PRACTICAL – REGRESSION METHODS**

**INSTRUCTIONS: PRACTICAL-REGRESSION METHODS ON CARS DATASET**

Please provide evidence in the form of screenshots or code snippets demonstrating the implementation of three different regression techniques. These should reflect your understanding of regression concepts, including simple linear regression, multiple linear regression, and polynomial regression, using the car dataset for analysis. Make sure to attach the Google Colab link in the submission file as well

**PROOF OF IMPLEMENTATION OF ALL REGRESSION TECHNIQUES**

1. Simple Linear Regression (predicts CO2 emissions based solely on engine volume : )



A graph showing the difference between engine volume and co2

AI-generated content may be incorrect.

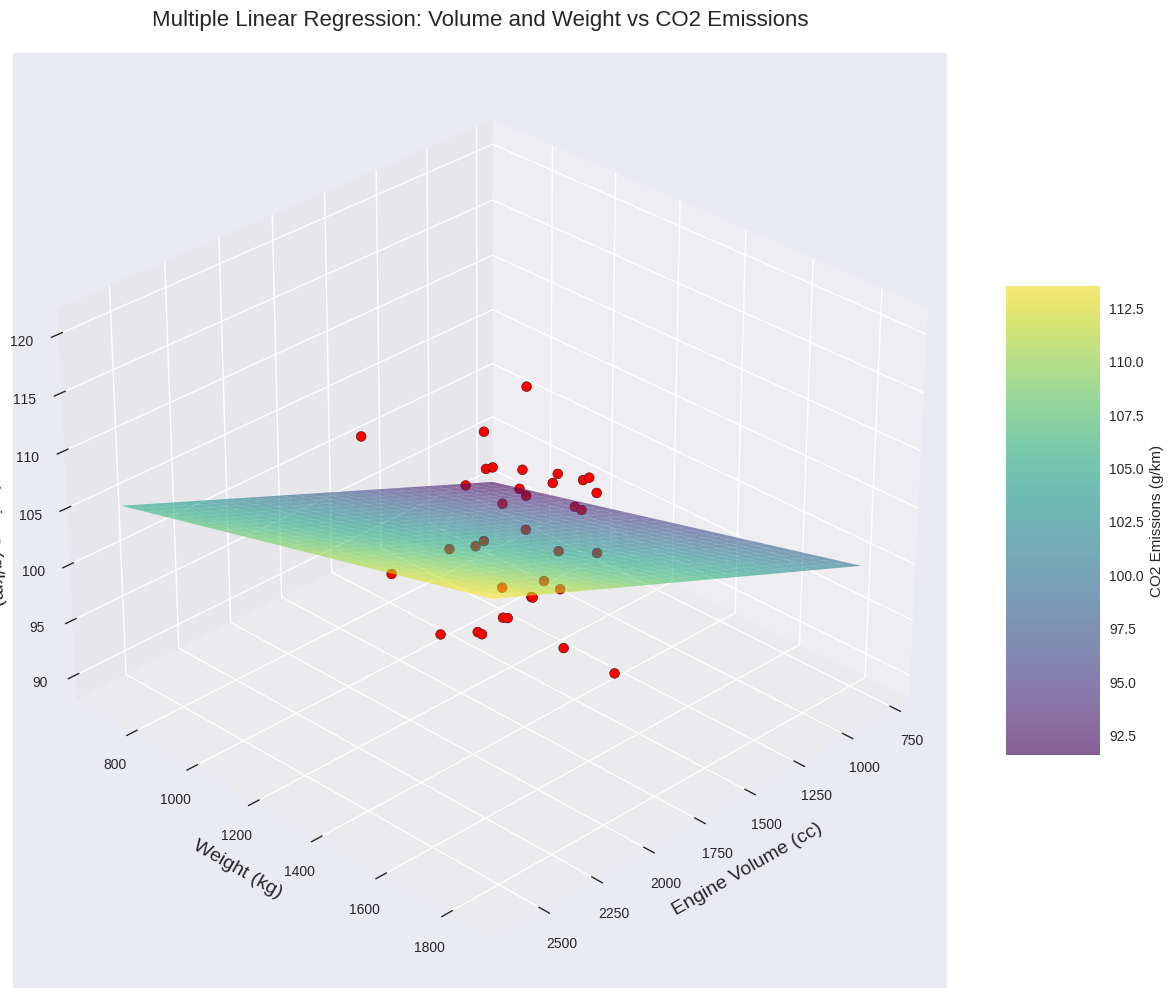
A screenshot of a computer

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1. Multiple Linear Regression (predicts CO2 emissions using both engine volume and weight : )

A screenshot of a computer

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A screenshot of a computer

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1. Polynomial Regression (predicts the exact CO2 value)

A screenshot of a computer

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A screenshot of a computer

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A graph showing a graph of a graph

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1. Logistic Regression (predicts whether a car has high/low CO2 emissions, binary classification)

A screenshot of a computer

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A blue squares with white text

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A graph showing a curve

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A diagram of different colors

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