

ASSIGNMENT - 2

Department: Computer Science and Engineering

Assignment On : 2

Course Name : Machine Learning and Data Mining Lab

Course Code : C3E - 4878

Submitted To

Mrs. Subrina Akter

Submitted By

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Semester: 8 th

Section: 8BF.

Date of Issue :

Date of Submission : 31/01/2023

Remark



Dataset Name: Students Mental Health.

Dataset Description:

Dataset characteristics:	Multivariade	Name of Instance: 102
Attribute Charcacteristres:	Integera, Real	Num. of Attribute: 11
Associated Tusks:	Regnersion	

Name of the Attribute:

- 1. Time stamp
- 2. genderz
- 3. Age
- 4. course
- 5. year
- 6. CGPA
- 7. Marital status
- 8. Do you have Depression?
- 9. Do you have Anniety?
- 10. Do you have Panic attack?
- 11. Did you seek any specialist bore a treatment?

Dinear Regression with single variable:

Predicted Value: array ([1.6562695])

Coefficient: annay ([0.00482242])

Intercept value: 4.55694660144853914

Linear Regression using Formula:

J1 = b1 x1 + b2 x2 + b3 x3 to

The value = 1.6562695

R value: 0.5712113152866571

B Linear Regnession with Multiple variable:

Predicted value: array ([3.61155657])

Coefficient: array ([0.00212382, -0.18445951])

Intercept Value: 3.755663556444526

Linear Regression: 3.594566034751763

R value: 2.6514935737369294