COMPUTER ENGINEERING DEPARTMENT

SUBMISSION REPORT

SUB: Machine Learning

COURSE: T.E. **Year: 2020-2021** **Semester: VI**

DEPT: Computer Engineering

SUBJECT CODE: CSDLO6021 **SUBMISSION DATE: 18/05/2021**

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Name: Amey Thakur **Roll No.: 50**

Class: TE Comps B **ID: TU3F1819127**

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Sr. No.	Particulars	Submitted/Not Submitted or Enter Marks received
	Assignments	
1	Assignment No. 1	9/10
2	Assignment No. 2	9/10
3	Assignment No. 3	9/10
	Quizzes	
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5	ML Quiz 2	10/10
6	ML Quiz 3	10/10
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8	ML Quiz 5	10/10
9	ML Quiz 6	10/10
	IAT	
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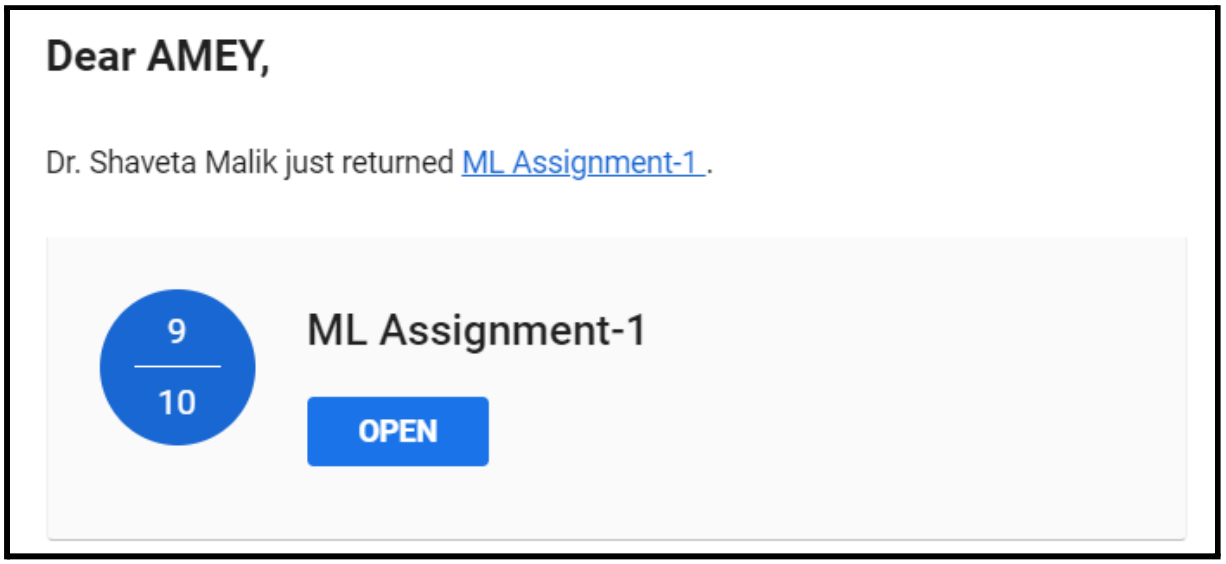
11	IAT-2	Submitted
	Exit Survey	
12	Course Exit Survey	Submitted

Signature:

Assignments

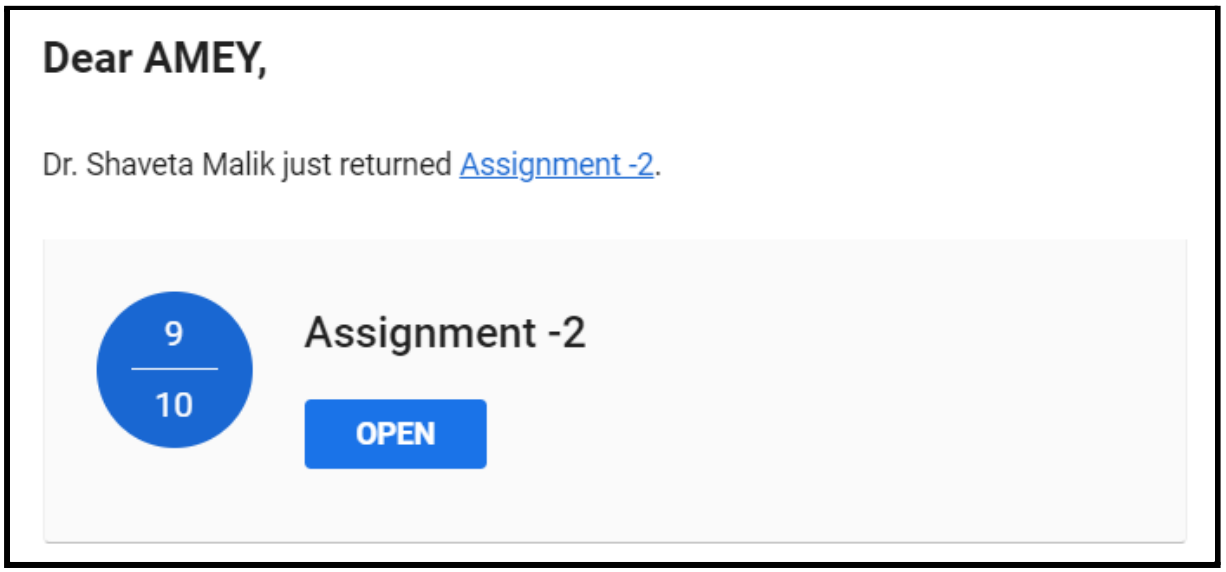
Machine Learning Assignment 1

Marks: (9/10)



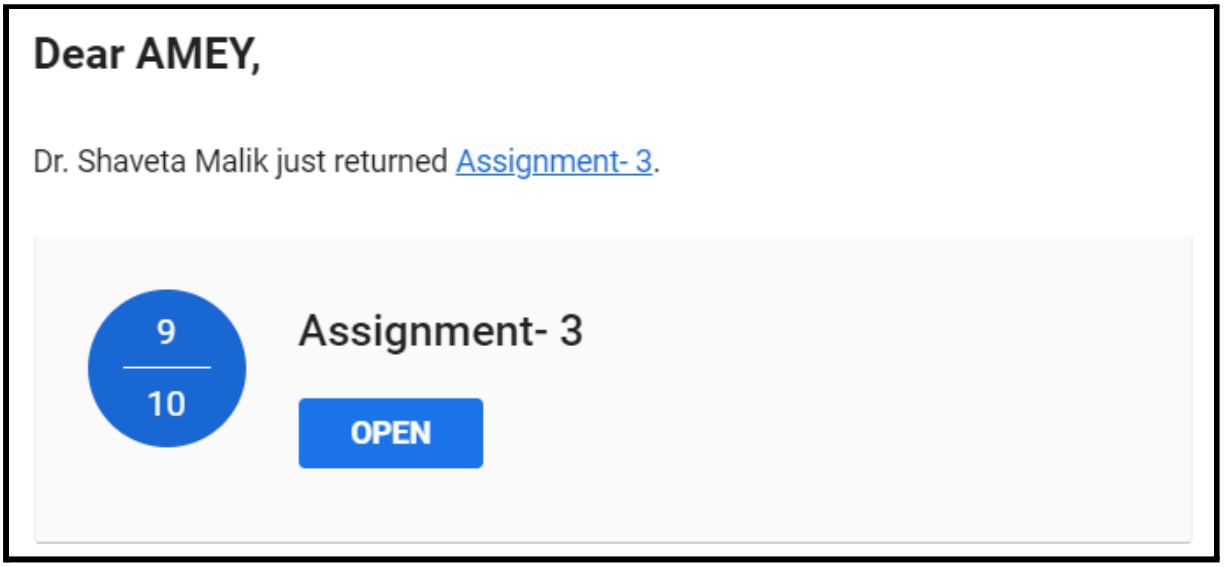
Machine Learning Assignment 2

Marks: (9/10)



Machine Learning Assignment 3

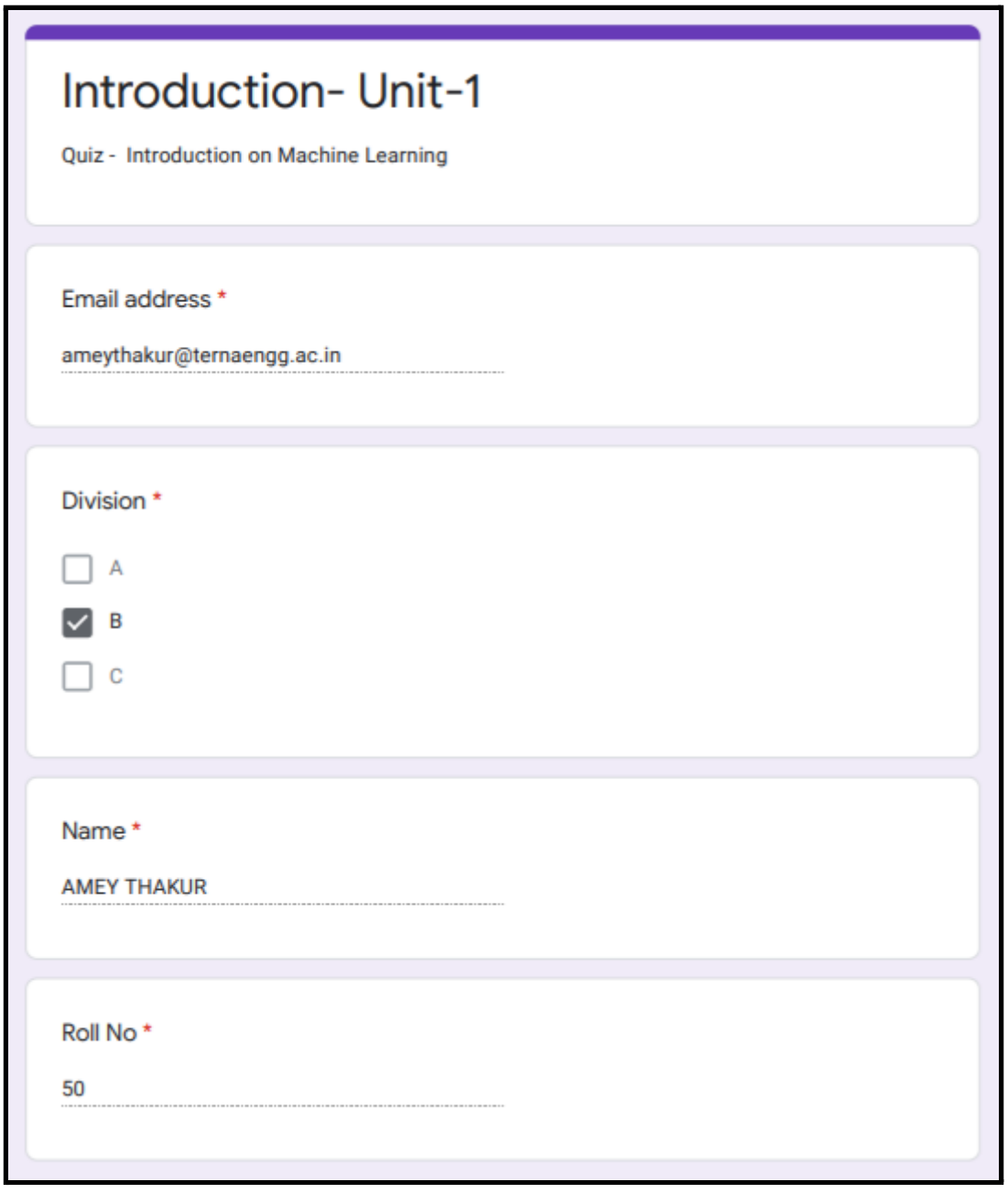
Marks: (9/10)



Quizzes

Machine Learning Quiz 1

Marks: (10/10)



Introduction- Unit-1

Quiz - Introduction on Machine Learning

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Division *

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- [x] B
- [ ] C

Name *

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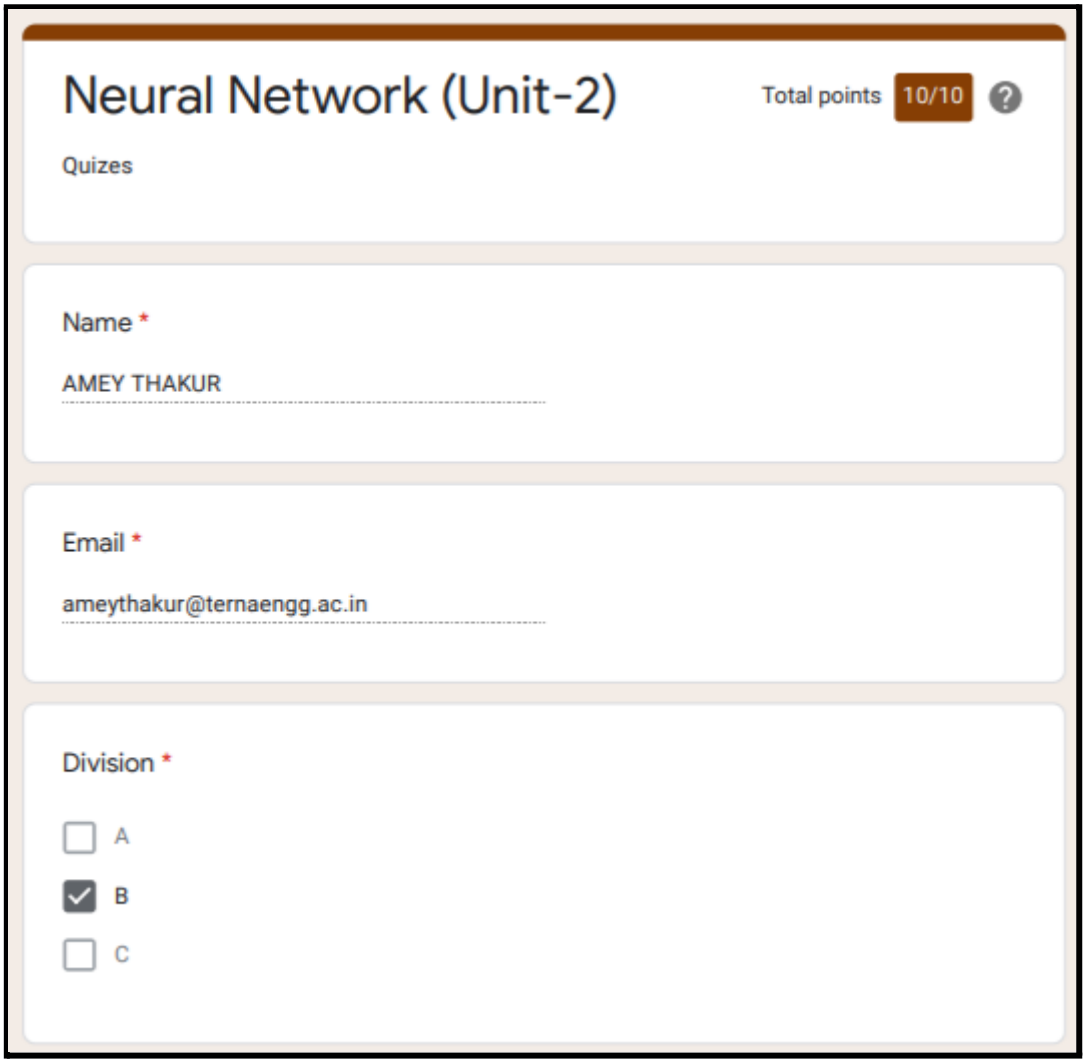
Machine Learning Quiz 2

Marks: (10/10)



Neural Network (Unit-2)

Total points 10/10

Quizes

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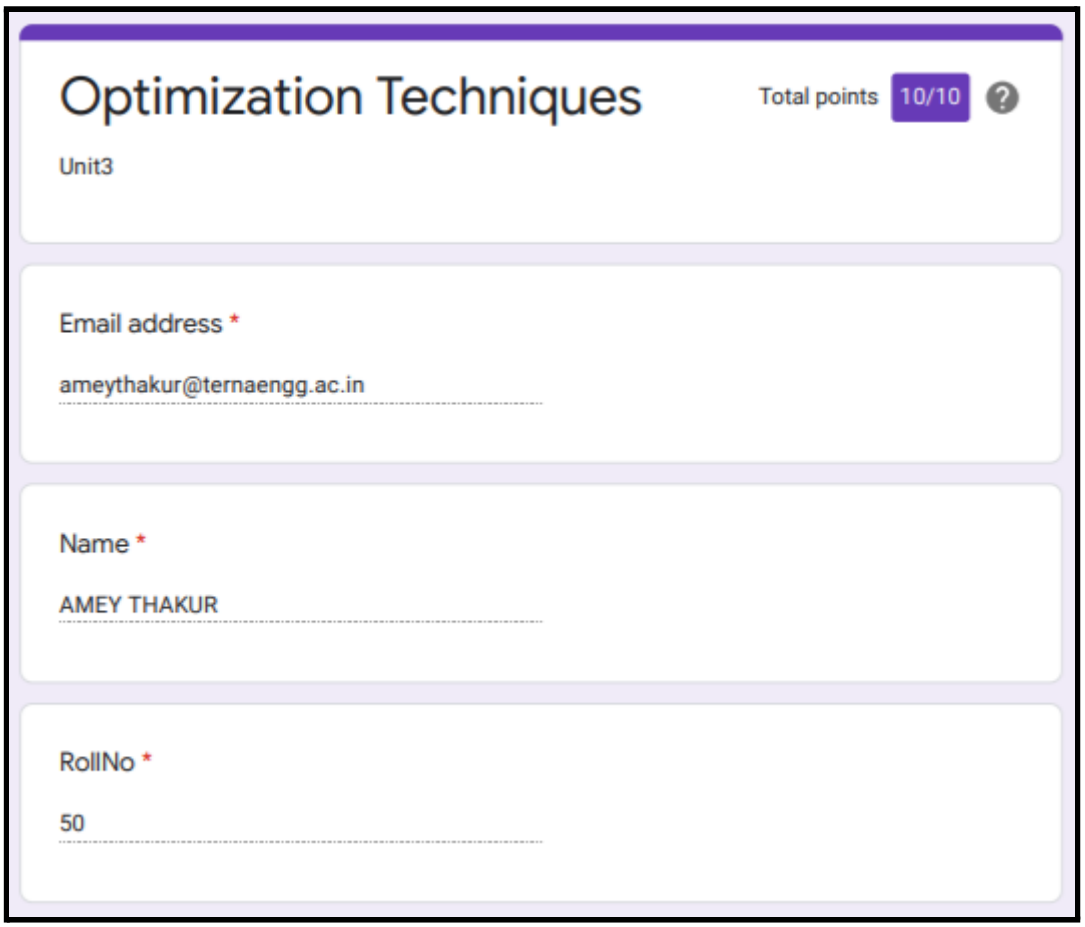
Machine Learning Quiz 3

Marks: (10/10)



Optimization Techniques

Total points 10/10

Unit3

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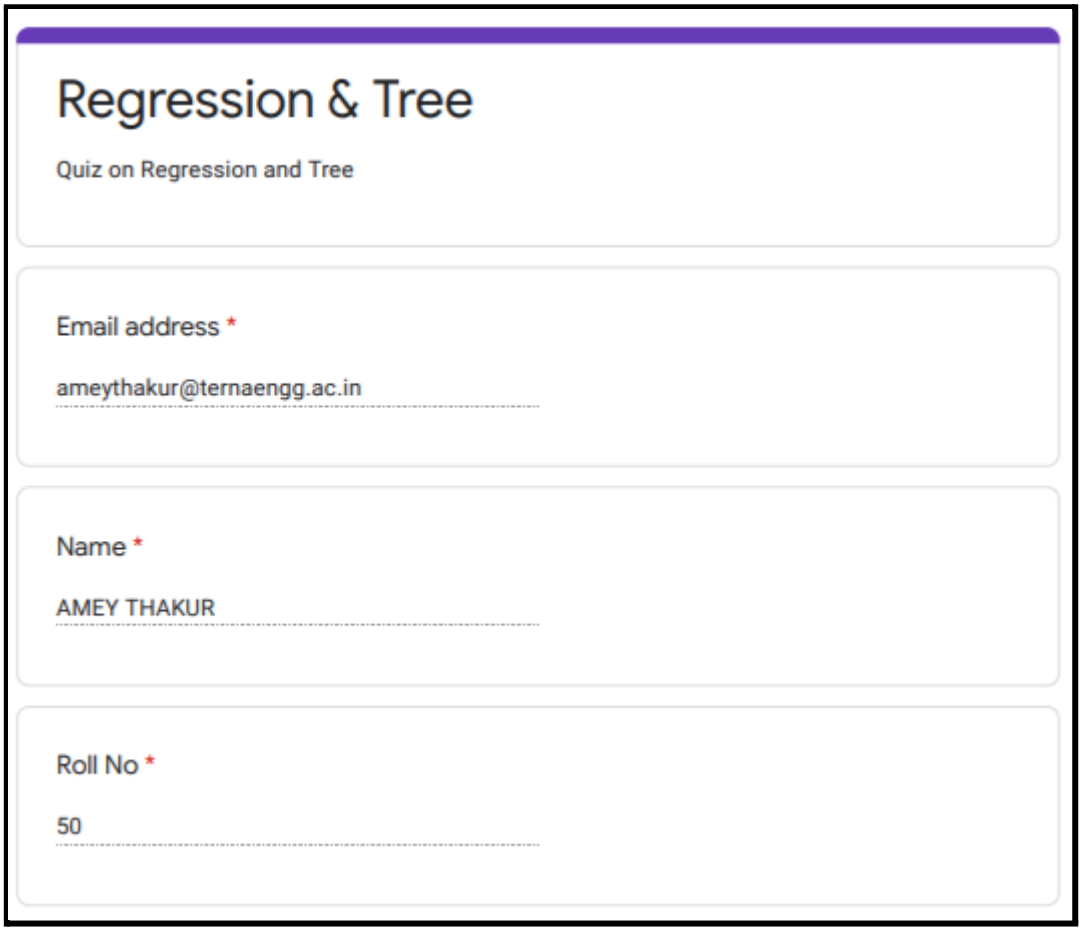
Machine Learning Quiz 4

Marks: (10/10)



Regression & Tree

Quiz on Regression and Tree

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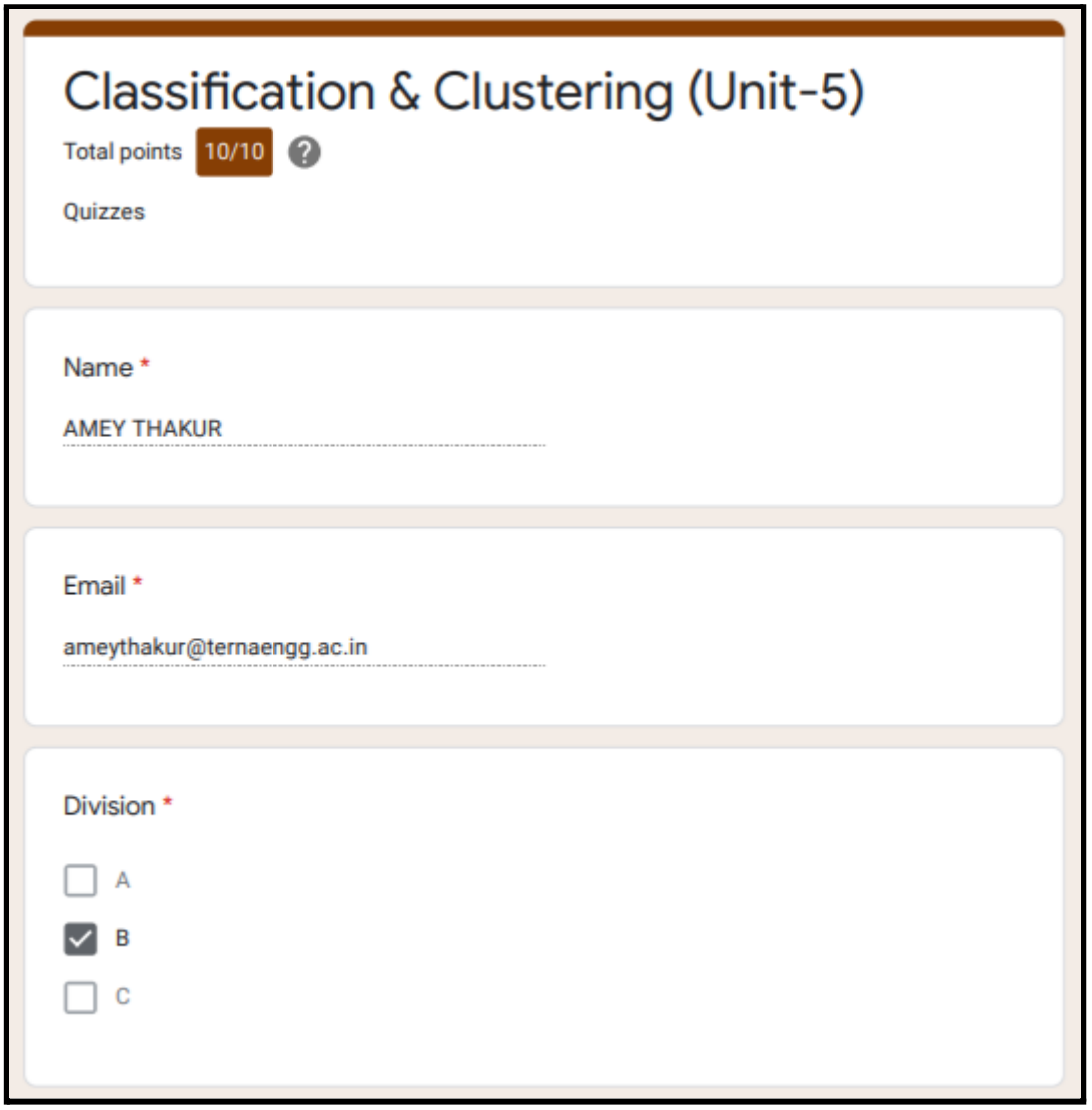
Machine Learning Quiz 5

Marks: (10/10)



Classification & Clustering (Unit-5)

Total points 10/10

Quizzes

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Division *

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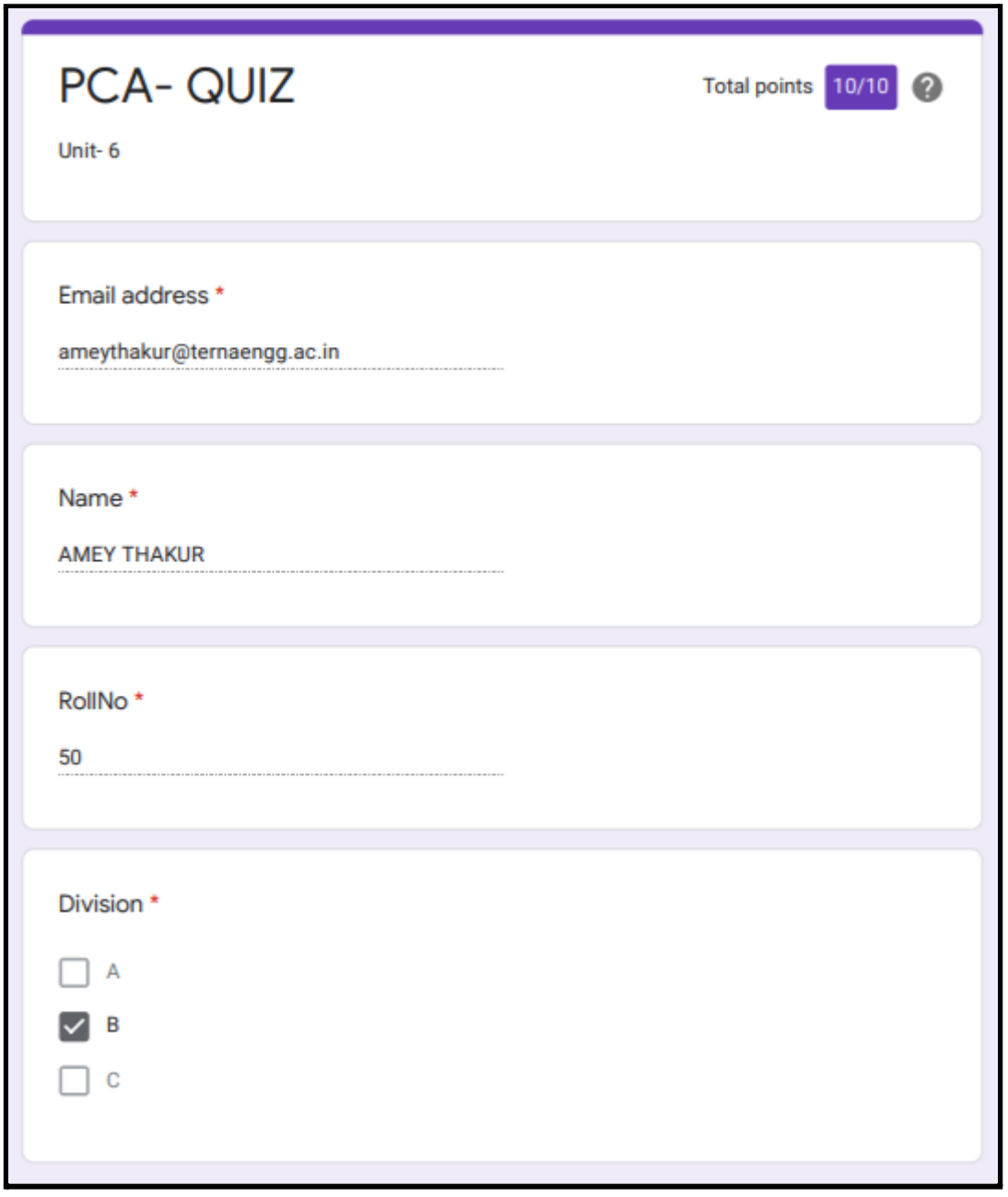
Machine Learning Quiz 6

Marks: (10/10)



PCA- QUIZ

Total points 10/10

Unit- 6

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Division *

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- [ ] C

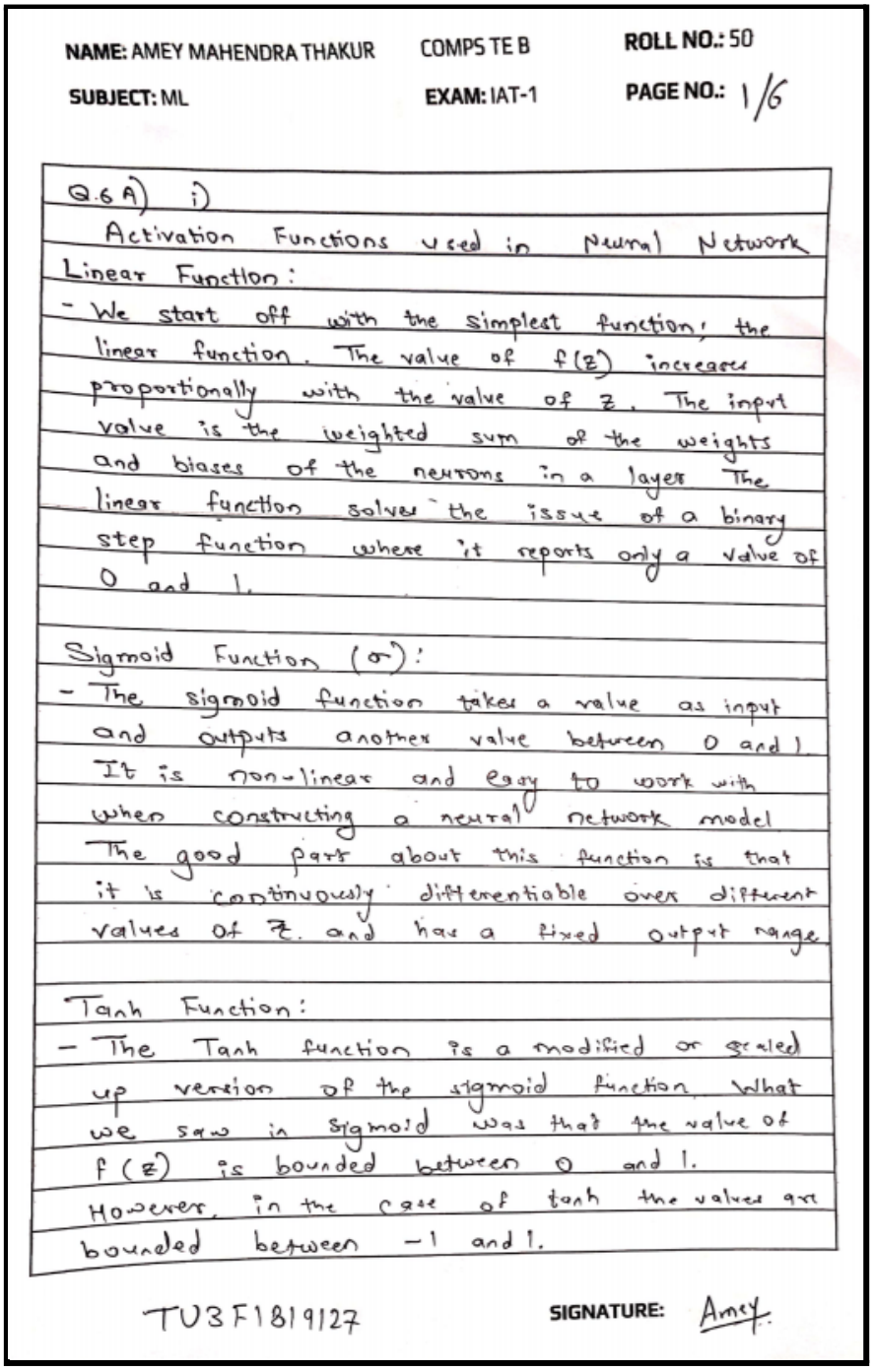
IAT

Machine Learning IAT 1

Marks: (17/20)

IAT 1 Descriptive Answer Sheet

(First page attached)



NAME: AMEY MAHENDRA THAKUR COMPS TE B ROLL NO.: 50

SUBJECT: ML EXAM: IAT-1 PAGE NO.: 1/6

Q.6 A) i)

Activation Functions used in Neural Network

Linear Function:

- We start off with the simplest function, the linear function. The value of f(z) increases proportionally with the value of z. The input value is the weighted sum of the weights and biases of the neurons in a layer. The linear function solves the issue of a binary step function where it reports only a value of 0 and 1.

Sigmoid Function (σ):

- The sigmoid function takes a value as input and outputs another value between 0 and 1. It is non-linear and easy to work with when constructing a neural network model. The good part about this function is that it is continuously differentiable over different values of z and has a fixed output range.

Tanh Function:

- The Tanh function is a modified or scaled up version of the sigmoid function. What we saw in sigmoid was that the value of f(z) is bounded between 0 and 1. However, in the case of tanh the values are bounded between −1 and 1.

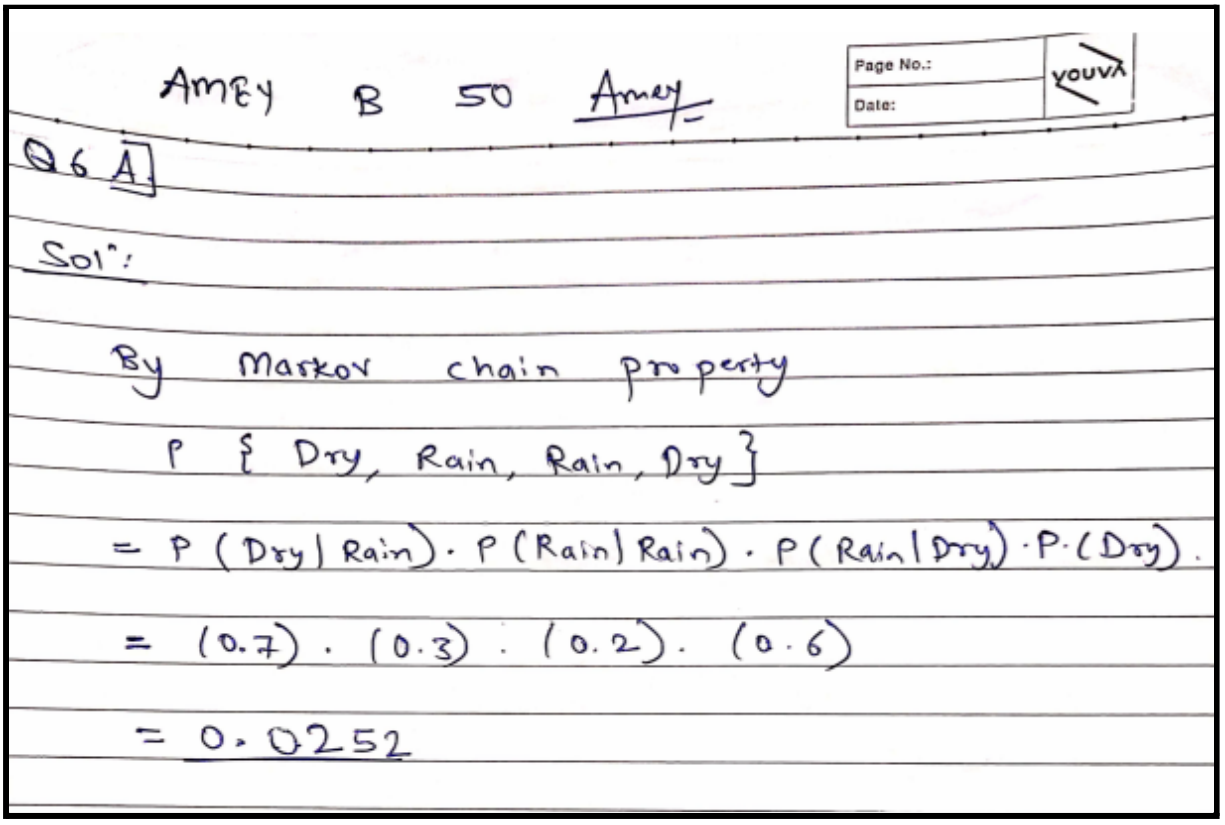
TU3F1819127 SIGNATURE: Amey

Machine Learning IAT 2

Marks: Not Received

IAT 2 Descriptive Answer Sheet

(First page attached)



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Q6 A]

Sol":

By Markov chain property

$P\{Dry, Rain, Rain, Dry\}$

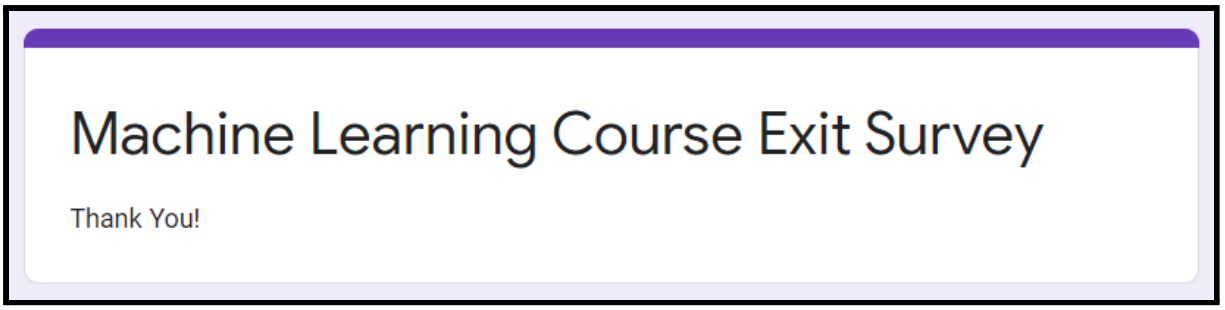
$= P(Dry|Rain) \cdot P(Rain|Rain) \cdot P(Rain|Dry) \cdot P(Dry)$

$= (0.7) \cdot (0.3) \cdot (0.2) \cdot (0.6)$

$= 0.0252$

Exit Survey

Machine Learning Course Exit survey



Google Classroom Submission Report

AMEY

Final Submission Report	Tomorrow	Handed in
ML Course Exit Survey-FH-2021	7 May	Handed in
Assignment- 3 1	15 May, 23:59	9/10
Assignment -2 1	15 May	9/10
ML Quizzes	30 Apr	Handed in
ML Assignment-1 1	15 May	9/10