

WEEK 4

Total points 4/15 ?

Greetings from Consulting and Analytics Club, IIT Guwahati.

We hope you had a great learning experience until now. Reaching till Week 4 Assignment is no small feat!

This is your graded assignment/mini project for Week 4.

Here you will apply the algorithms you have learned in week 4 in Python.
But this time you will use Scikit Learn!

You need to write the code in the jupyter notebook. This quiz will thoroughly check your understanding of the Week 4 concepts.

For The Jupyter Notebook refer to the drive link :

<https://drive.google.com/drive/folders/1HrnNaFWRDH0RSnQCVX0S8eipC1TEjLPN?usp=sharing>

Instructions:

- 1) Go to the Drive link and download 2 files in the same folder(WEEK4.ipynb and WEEK4.txt)
- 2) Complete the jupyter notebook
- 3) You do not have to submit any code.
- 4) After completion of the notebook you can answer the quiz questions

General Guidelines:

- 1) All questions are compulsory and thus should be attempted.
- 2) Each Question has weightage and will contribute in the final grading of the course.
- 3) Please attempt this if you have completed all the 5 days of Week 4.
- 4) Violation of the honor code will lead to harsh actions being taken.

Note: Some questions may require studying certain topics from the web , no support material will be provided for the same, it is up to the participants to study it on their own.

4 of 15 points



✓ On the Prices Column did the log transform give better normalized data or the sqrt transform? * 1/1

☐ log transform

☒ sqrt transform



✓ Decision Tree Regressor R2 score(Training) is * 1/1

☒ Between 0.42 to 0.43

☐ Between 0.44 to 0.45

☐ Between 0.45 to 0.46

☐ Between 0.46 to 0.47



✗ Decision Tree Regressor R2 score(Testing) is * 0/1

☐ Between 0.37 and 0.38

☐ Between 0.36 and 0.37

☒ Between 0.35 and 0.36

☐ Between 0.38 and 0.39



✓ Decision Tree Regressor mse(Training) is *

1/1

- ☒ Between 81776562.90 and 81776562.91
- ☐ Between 81776562.91 and 81776562.92
- ☐ Between 81776562.92 and 81776562.93
- ☐ Between 81776562.93 and 81776562.94



✗ Random Forest Regressor mse(testing) is *

0/2

- ☐ Between 84727778.65 and 84727778.66
- ☐ Between 84727778.64 and 84727778.65
- ☐ Between 84727778.66 and 84727778.67
- ☒ Between 84727778.67 and 84727778.68



✗ Random Forest Regressor mae(testing) is *

0/1

- ☐ Between 6695.66 and 6695.67
- ☐ Between 6695.65 and 6695.66
- ☐ Between 6695.64 and 6695.65
- ☒ Between 6695.67 and 6695.68



✓ TPR for Logistic Regression(Training) *

1/1

- ☒ Between 0.65 and 0.66
- ☐ Between 0.69 and 0.70
- ☐ Between 0.70 and 0.71
- ☐ Between 0.66 and 0.67



✗ TNR for Logistic Regression(Testing) *

0/1

- ☒ Between 0.73 and 0.74
- ☐ Between 0.74 and 0.75
- ☐ Between 0.77 and 0.78
- ☐ Between 0.76 and 0.77



✗ Sensitivity for SVC (Training) *

0/1

- ☐ Between 0.51 and 0.52
- ☐ Between 0.50 and 0.51
- ☐ Between 0.52 and 0.53
- ☒ Between 0.53 and 0.54



✗ Accuracy for SVC(Testing) *

0/1

- ☒ Between 0.72 and 0.73
- ☐ Between 0.73 and 0.74
- ☐ Between 0.71 and 0.72
- ☐ Between 0.70 and 0.71

✗

✗ Specificity for Decision Tree(Training) *

0/1

- ☒ Between 0.86 and 0.87
- ☐ Between 0.85 and 0.86
- ☐ Between 0.87 and 0.88
- ☐ Between 0.88 and 0.89

✗

✗ Accuracy for Decision Tree(Testing) *

0/1

- ☐ Between 0.74 and 0.75
- ☐ Between 0.75 and 0.76
- ☐ Between 0.73 and 0.74
- ☒ Between 0.72 and 0.73

✗



✗ TPR for Random Forest Classifier (Training) *

0/1

- ☐ Between 0.56 and 0.57
- ☐ Between 0.55 and 0.56
- ☐ Between 0.54 and 0.55
- ☒ Between 0.53 and 0.54

✗

✗ Accuracy for Random Forest Classifier(Testing) *

0/1

- ☐ Between 0.77 and 0.78
- ☒ Between 0.73 and 0.74
- ☐ Between 0.74 and 0.75
- ☐ Between 0.75 and 0.76

✗

BEFORE SUBMITTING

The next page will lead you to accept the honor code and submit the User ID and Password. Make sure you have these ready.

THE USER ID AND PASSWORD FOR ALL QUIZZES/ASSIGNMENTS IS SAME THROUGHOUT COURSE

User Details

0 of 0 points

Kindly fill the details carefully



Honor Code

1) You can submit the form only once, using a single User ID and Pass. Usage of multiple accounts for submission of quizzes will lead to harsh actions being taken.

2) Your answers to the questions must be your own work. (Very Important)

3) You may not share your solutions with anyone else unless explicitly permitted by the mentor. This includes anything written by you, as well as any official solutions provided by the course .

4) You may not engage in any other activities that will dishonestly improve your results or dishonestly improve or damage the results of others.

You can report Honor Code violations by contacting any of the members of Consulting and Analytics Club, IIT Guwahati.

Name *

Dhrubanka Dutta

Please enter your User ID correctly in the following text field (This will be needed for grading) *

U011W5850DA

Please enter the password *

GN7Y34JB

Please type " I Accept the Honor Code and will not violate it in any possible way" in the following text field. *

I Accept the Honor Code and will not violate it in any possible way

Kindly fill the small survey below



Current Occupation *

- ☒ Student
- ☐ Working Professional

Present University/College or Place of work *

Vellore Institute Of Technology

Country of residence *

India

City of residence *

Ghaziabad

What motivated you to take up the course *

- ☐ A starting path to enter the field of data science
- ☐ Certification from a reliable source
- ☒ Supplement existing knowledge



How did you come to know about this course? *

- ☒ LinkedIn
- ☐ Facebook
- ☐ Friends

How has been to clarity of course content *

Not Clear 1 2 3 4 5 Amazing

☐ ☐ ☐ ☒ ☐

How easy was the navigation and understanding the course instructions *

Bad 1 2 3 4 5 Excellent

☐ ☐ ☐ ☒ ☐

How good has been the pace of the course *

Bad 1 2 3 4 5 Excellent

☐ ☐ ☐ ☒ ☐

How satisfied were you by the doubt resolution facility *

Bad 1 2 3 4 5 Excellent

☐ ☐ ☒ ☐ ☐



How has been the quality of assignments *

	1	2	3	4	5	
Bad	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Excellent

Average time devoted to the course per week in hours *

- ☐ 5
- ☐ 7
- ☒ 10
- ☐ 15
- ☐ 20
- ☐ 30
- ☐ More

Average time took to complete the assignments in hours *

- ☐ 1
- ☒ 2
- ☐ 5
- ☐ 7
- ☐ 10
- ☐ More



What mode of learning do you prefer *

- ☒ Video lectures
- ☐ Pdfs and website links
- ☐ Book references

Would you recommend the course to others *

- ☒ Yes
- ☐ No
- ☐ Maybe

How would you rate the course instructors overall management *

- | | | | | | | |
|----------|-----------------------|-----------------------|-----------------------|----------------------------------|-----------------------|-----------|
| | 1 | 2 | 3 | 4 | 5 | |
| Not good | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | Excellent |

How do you rate this course in comparison to other online courses *

- | | | | | | | |
|-----|-----------------------|-----------------------|-----------------------|----------------------------------|-----------------------|-----------|
| | 1 | 2 | 3 | 4 | 5 | |
| Bad | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | Excellent |



Will you be able to apply the concepts after this course practically *

	1	2	3	4	5	
no	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	easily

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