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NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » Python for Data Science (course)



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## Course outline

About NPTEL  
( )

How does an  
NPTEL online  
course work?  
( )

Week 0 ( )

Week 1 ( )

Week 2 ( )

Week 3 ( )

# Week 4: Practice Assignment 4

Assignment not submitted

**Note : This assignment is only for practice purpose and it will not be counted towards the Final score**

- 1) Which of the following functions can be used to split the data into train and test? **1 point**
- ☐ pandas.train\_test\_split( )
  - ☐ numpy.train\_test\_split( )
  - ☒ sklearn.model\_selection.train\_test\_split( )
  - ☐ sklearn.train\_test\_split( )
- 2) The function used to perform k-Nearest Neighbors classification is: - **1 point**
- ☐ sklearn.KNN
  - ☐ sklearn.KNearestClassifier
  - ☒ sklearn.neighbors.KNeighborsClassifier( )
  - ☐ sklearn.neighbors.KNeighborsRegressor( )
- 3) A Linear Regression model is said to be good when the **R-squared** value tends to **1 point**
- ☐ 0
  - ☒ 1
  - ☐ -1
  - ☐ 0.5
- 4) The Gini coefficient ranges from **1 point**

## Week 4 ()

- Introduction to Classification Case Study (unit? unit=56&lesson=57)
- Case Study on Classification Part I (unit? unit=56&lesson=58)
- Case Study on Classification Part II (unit? unit=56&lesson=59)
- Introduction to Regression Case Study (unit? unit=56&lesson=60)
- Case Study on Regression Part I (unit? unit=56&lesson=61)
- Case Study on Regression Part II (unit? unit=56&lesson=62)
- Case Study on Regression Part III (unit? unit=56&lesson=63)
- Data sets (unit? unit=56&lesson=64)
- Case Study codes (unit? unit=56&lesson=65)

☒ 0 to 1

☐ -1 to 0

☐ -1 to 1

☐ None of the above

5) What is heteroscedasticity as used to assess a Linear Regression model?

**1 point**

☒ Linear regression with varying error terms

☐ Linear regression with constant error terms

☐ Linear regression with no error terms

☐ All the above

**Check Answers and Submit**

☐ **Practice:**  
**Week 4:**  
**Practice**  
**Assignment 4**  
**(assessment?**  
**name=159)**

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☐ Quiz: Week 4 :  
Assignment 4  
(assessment?  
name=164)

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**Supporting**  
**material for**  
**Week 4 ()**

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**Download**  
**Videos ()**

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**Books ()**

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**Text**  
**Transcripts ()**

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**Problem**  
**Solving**  
**Session - Jan**  
**2025 ()**