

DAILY ONLINE ACTIVITIES SUMMARY

Date:	11 th july,2020	Name:	Pramod R
Sem & Sec	4 th sem & b section	USN:	4AL18CS059
Online Test Summary			
Subject	-----		
Max. Marks	-----	Score	-----
Certification Course Summary			
Course	Statistics for machine learning		
Certificate Provider	Great learning	Duration	6 hrs
Coding Challenges			
Problem statement: write java program to reversal algorithm for array rotation by 3			
Status: done			
Uploaded the report in Github		yes	
If yes Repository name		https://github.com/alvas-education-foundation/Pramod_R	
Uploaded the report in slack		yes	

Certification Course Details: (Attach the snapshot and briefly write the report for the same)

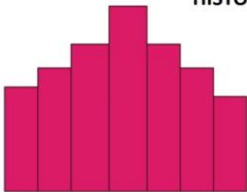
Search results - prathuakash47 | Algorithmic Toolbox | Coursera | Data and Histogram: Statistics

https://olympus.greatlearning.in/courses/10901/pages/data-and-histogram

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Data and Histogram



HISTOGRAM

Histogram (also known as frequency histogram) is a snap shot of the frequency distribution.

Histogram is a graphical representation of the frequency distribution in which the X-axis represents the classes and the Y-axis represents the frequencies in bars

Histogram depicts the pattern of the distribution emerging from the characteristic being measured.

1. Outline
2. Data versus information
3. Raw data
4. Frequency distribution
5. Histogram
6. Cumulative frequency distribution
7. Cumulative distribution function
8. What is central tendency?
9. Arithmetic mean
10. Median
11. Mode
12. Comparison of mean, median, mode
13. Measures of dispersion
14. Range
15. Inter-Quartile Range (IQR)

3:23

16:22 14-07-2020

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Data and Histogram

Histogram- Example

The inspection records of a hose assembly operation revealed a high level of rejection. An analysis of the records showed that the "leaks" were a major contributing factor to the problem. It was decided to investigate the hose clamping operation. The hose clamping force (torque) was measured on twenty five assemblies. (Figures in foot-pounds). The data are given below: Draw the frequency histogram and comment.

8	13	15	10	16
11	14	11	14	20
15	16	12	15	13
12	13	16	17	17
14	14	14	18	15

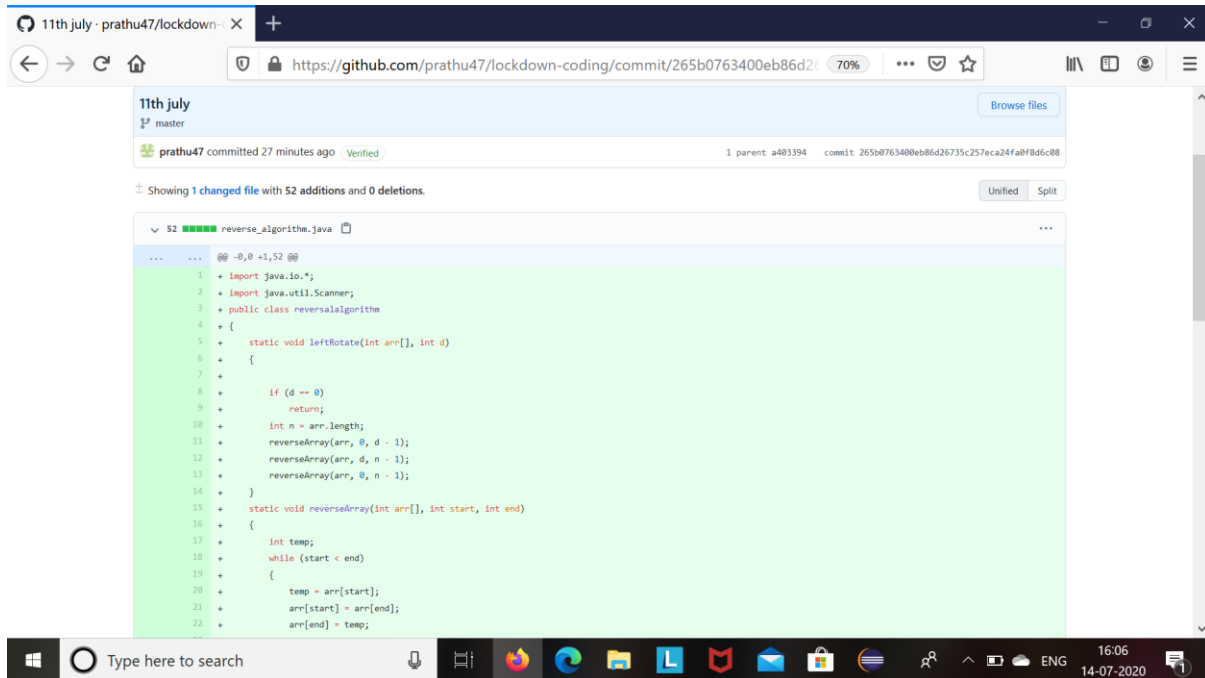
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4:40

16:22 14-07-2020

The course I have chosen during the lockdown period is statistics for machine learning. since I was interested in machine learning I opted for this course . Today learnt about data and histogram.

Coding Challenges Details: (Attach the snapshot and briefly write the report for the same.



The screenshot shows a GitHub commit page for a repository named 'prathu47/lockdown-coding'. The commit is titled '11th july' and was made by 'prathu47' 27 minutes ago. It shows a single file change: 'reverse_algorithm.java'. The code is a Java program that implements an array rotation algorithm. It includes imports for 'java.io.*' and 'java.util.Scanner', and a public class 'reversalalgorithm'. The class contains two methods: 'leftRotate' and 'reverseArray'. The 'leftRotate' method takes an array and a rotation count 'd', and the 'reverseArray' method takes an array and two indices 'start' and 'end'.

```
1  + import java.io.*;
2  + import java.util.Scanner;
3  + public class reversalalgorithm
4  + {
5  +     static void leftRotate(int arr[], int d)
6  +     {
7  +
8  +         if (d == 0)
9  +             return;
10 +
11 +         int n = arr.length;
12 +         reverseArray(arr, 0, d - 1);
13 +         reverseArray(arr, d, n - 1);
14 +         reverseArray(arr, 0, n - 1);
15 +     }
16 +     static void reverseArray(int arr[], int start, int end)
17 +     {
18 +         int temp;
19 +         while (start < end)
20 +         {
21 +             temp = arr[start];
22 +             arr[start] = arr[end];
23 +             arr[end] = temp;
```

Coding challenge.

write a java program to reversal algorithm array rotation by 3.

The above was screenshot of the program uploaded in github.