Peer-graded Assignment: Peer-Graded Final Assignment

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It looks like this is your first peer-graded assignment. Learn more

You passed!

Congratulations. You earned 10/10 points. Review the feedback below and continue the course when you are ready. You can also help more peers by reviewing their submissions.

Review assignments

Instructions

My submission

Discussions

Using Data Analysis for Detecting Credit Card Fraud

Submitted on November 1, 2023 Shareable Link

PROMPT

List at least 5 (five) data points that are required for the analysis and detection of a credit card fraud. (3 marks)

- IP Address
- User ID
- · Shipping Address
- · Transaction Date
- · Transaction Time
- Transaction Value

RUBRIC

Did the learner list 5 or more data points out of the 8 data points listed below that are required for the analysis and detection of a credit card fraud?

- 1. Card holder / Customer Id
- 2. Transaction date
- 3. Transaction time
- 4. Transaction value
- 5. Shipping address
- 6. IP address
- 7. Device model
- 8. Location

3 points

WC

Correct. The learner listed 5 or more data points out of the 8 data points listed below that are required for the analysis and detection of a credit card fraud.

- Card holder / Customer Id
- 2. Transaction date
- 3. Transaction time
- 4. Transaction value
- 5. Shipping address
- 6. IP address
- 7. Device model
- 8. Location

2 points

Partially Correct. The learner listed 3 to 4 data points out of the 8 data points listed below that are required for the analysis and detection of a credit card fraud.

- Card holder / Customer Id
- 2. Transaction date
- 3. Transaction time
- 4. Transaction value
- Shipping address
- 6. IP address
- 7. Device model
- 8. Location

1 point

Partially Correct, The learner listed 1 to 2 data points out of the 8 data points listed below that are required for the analysis and detection of a credit card fraud.

- Card holder / Customer Id
- 2. Transaction date
- Transaction time

- 4. Transaction value
- Shipping address
- 6. IP address
- 7. Device model
- 8. Location
- 0 points

Incorrect. The learner did not list any data points out of the 8 data points Ithat are required for the analysis and detection of a credit card fraud.

PROMPT

Refer to the data table below and identify 3 (three) errors/issues that could impact the accuracy of your findings. (3 marks)

IP Address	User ID	Account Number	Age	Shipping Address	Transaction Date	Transaction Time	Transaction Vetus	Product Category	Units Punchesed
5.56125.0	johno	25671147	32	1542, Drohid Lane, WA 98706, US	15-5-20	15:00:05	\$121.58	Clathing	1
8.56128.0	johnp	25671147	32	1542, Orchid Lane, WW 98705, US	10-6-20	10.2810	\$79.28	Electronics	2
5.561250	Johns	25671147	32	1542, Drichid Larm, WA 98706, US	1-6-20	07:11:45		Moree Decor	1.
1.186527	johnp	15671147	32	In-store	3-6-20	01:11:10	52,009,99	Electronics	10
	Johna	35671147	32	(m-atore	2020-06-03	01:15:13	\$4,131.00	Destroyes	12
1.185.52.7	Johns	25671147	32	P.O. Box 1049	03-06-2020	01/22:24	\$3,010.50	Tools	20
1.58.167.2	davide	51422789	47	50 Robinson Blvd, Alberta, 97602, Canada	15 May 2020	17:02:08	\$284.20	Furniture	2
1.58167.2	devide	51422789	47.	90 Rosinson Blied, Alberta, 97502, Canada	18 May 2020	191145	\$145.00	Atthorn Supplies	3
	glavels	51,422789	47	90 Robinson Blid, Alberta, 97602, Canada	01 June 2020	17:34:15	\$157.25	Car Spares	2
1.50.107.1	devide	51422789	47	90 Robinson Stud. Alberta. 97602. Carreda	13 June 2020	18:01:10	309.99	Klithoen Supplies	
172,215.101	elland	11568528		P.D. Sox 1512	07 June 2020	1553:12	\$99.99	Clathing	
172.155.10.1	ellend	11568528		P.O. Box 1312	08 June 2020	17:15:80	\$53,15	Beauty	1
167.255.13	elland	11588528		P.O. Scs 5401	02 Ally 2020	00:05:10	54 895 00	Lactop	1.

- · Missing 2 IP Address
- · Format Date in Transaction Date are discrepancy
- Missing 1 Transaction Value

RUBRIC

Did the learner identify at least 3 errors/issues that could impact the accuracy of the findings?

Some of the issues that could impact the accuracy of findings include:

- Missing transaction value
- Missing IP Address
- Date format inconsistency

3 points

WG

Correct. The learner identified 3 errors/issues that could impact the accuracy of the findings.

 2 points
 Partially Correct. The learner identified at least 2 errors/issues that could impact the accuracy of the findings.

1 point Partially Correct. The learner identified 1 error/issue that could impact the accuracy of the findings.

0 points

Incorrect. The learner did not identify any error/issue.

PROMPT

Refer to the data table below and identify 2 (two) anomalies or unexpected behaviors, that would lead you to believe the transaction may be suspect. (2 marks)

IP Address	tier 10	Account Number	Age	Shipping Address	Transaction Date	Transaction Time	Transaction	Product Category	Parchaged.
5.561250	johnp	25871147	32	1542, Orchid Lane, WA 98706, US	15-5-20	15:00:03	\$121.58	Clathing	1
8.56.123.0	johnp	15671147	32	1542, Orchid Lane, WA 98705, US	10-6-20	10:28:10	\$79.28	Electronics	- 2
8,66,128.0	Jahraja	26471217	33	LR12, Grainté Laire, WV 08706, ME	1 6 30	27(12-78		Hama Berar	
1.186.52.7	johno	15671147	92	in-store	3-6-28	01:11:10	\$2,009.99	Electronics	10
	johnp	25671147	22	ly-store	2020-06-03	01:15:13	\$4131.00	Eleptronica	15
1.185.52.7	johnp	25671147	32	P.D. Scs 1049	03-06-2020	01:22:24	\$3,010.50	Tools	20
1.58.167.1	davidg	51422789	47	90 Robinson Blisd, Alberta, 97602, Canada	15 May 2020	17:02:08	\$234.28	Furniture	- 1
1.58167.1	devide	51422789	42	50 Rotinson Blid, Alberta, 97602, Canada	18 May 2020	19:11:45	\$141.00	Withcon Supplies	1
	davidg	51422789	47	90 Robinson Blid, Alberta, 97602, Canada	01 Ame 2620	17:84:15	\$157.25	Car Spares	- 2
1,54,167,1	devide	51422788	47	90 Rosinsum Brid, Alberta, 97602; Carrada	13 June 2000	18:02:10	559.99	Kithcen Supplies	1
172 185 101	ellend	11550528		FD 8cc 1572	07 June 2020	15 53 12	599.99	Clathing	1.
172.165.10.1	ellend	11568528		P.O. Box 1312	08 June 2020	17:15:30	\$53,15	Beauty	12
1.167.255.17	allend	11568928		P.D. Scs 5401	02 July 2020	00:05:10	\$4,895.00	Lagrico	- 1

- · Several higher transaction value to different Shipping Address
- Transaction Value and frequency of transactions Increase suspiciously
- · IP Adress and Shipping address change in anomaly pattern

RUBRIC

Did the learner identify 2 anomalies, or unexpected behaviors, that would lead them to believe the transaction may be suspect?

Some of anomalies in the provided data set include:

- Significantly higher Transaction Value where Shipping Address
 has been changed from home/office address to P.O. Box.
- · Higher Transaction Value and increased frequency of transactions.
- IP Address change and significantly higher Transaction Value.
- · IP Address change and Shipping Address change

Note: It is OK for the learners to answer this in their own words.

2 points Correct. The learner identified 2 anomalies or unexpected behaviors that would lead them to believe the transaction may be suspect.

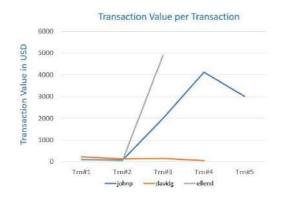
WG

1 point Partially Correct. The learner identified 1 anomaly or unexpected behavior that would lead them to believe the transaction may be suspect.

 0 points
 Incorrect. The learner did not identify an anomaly or unexpected behavior.

PROMPT

Briefly explain your key take-away from the provided data visualization chart. (1 mark)



RUBRIC

Did the learner explain a key take-away from the data visualization chart?

The visualization depicts the transaction values per transaction for all three users. The **key take-away** from this visualization is the sharp rise in the transaction values for users johnp and ellend, which may be indicative of an anomaly.

Note: It is OK for the learners to answer this in their own words.

1 point WG Correct. The learner provided a key take-away. In this line-chart ,we can observe the trend of transaction values for three users over 5 time steps.

The Key take-away from the provided data visualization chart is the high anomaly increase in transaction Value for "jonp" and "ellend". The trend is suspicius for those two customers from the "Trn#2" and should be verified in depth.

0 points

The learner did not provide any key take-away

PROMPT

Identify the type of analysis that you are performing when you are analyzing historical credit card data to understand what a fraudulent transaction looks like. Hint: The four types of Analytics include: Descriptive, Diagnostic, Predictive, Prescriptive. (1 mark)

The type of analisis performed is Descriptive Analytics

RUBRIC

Did the learner identify the type of analysis that they are performing when they are analyzing historical credit card data to understand what a fraudulent transaction looks like?

1 point

WG

Correct. The learner identified 'Descriptive Analytics' as the type of analysis that they are performing when they are analyzing historical credit card data to understand what a fraudulent transaction looks like.

0 points

Incorrect. The learner did not identify the type of analysis as 'Descriptive Analytics'.

