Final Exam
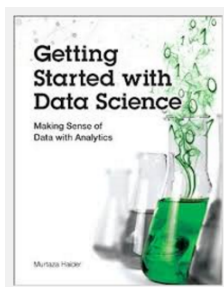
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Final Exam Instructions

Exam questions are based on the prescribed reading. The reading can be found **>>here<<**

1. Time allowed: **1 hour**

2. Attempts per question:

   - One attempt - For True/False questions

   - Two attempts - For any question other than True/False

3. Clicking the "**Final Check**" button when it appears, means your submission is **FINAL**. You will **NOT** be able to resubmit your answer for that question ever again

   IMPORTANT: Do not let the time run out and expect the system to grade you automatically. You must explicitly submit your answers, otherwise they would be marked as incomplete.

Question 1

1 point possible (graded)
In the reading, the output of a data mining exercise largely depends on:

○ The engineer

○ The programming language used

○ The quality of the data

○ The scope of the project

○ The data scientist

Submit   You have used 0 of 2 attempts

Question 2

1 point possible (graded)
What has changed from the past to make Data science an in-demand occupation?

○ There is now a lack of data

○ Laws have changed

○ Vast amount of data date being created

○ The advent of the free market

Submit   You have used 0 of 2 attempts

Question 3

1 point possible (graded)
You develop an algorithm to predict rainy days, your algorithm predicts a rainy day, but the prediction is false. What is the following an example of ?

○ the r squared

○ ture negatives

○ false positive

○ generated values

Submit   You have used 0 of 2 attempts

Question 4

1 point possible (graded)
What is an example of regression problem

○ Finding an object in an image

○ Reducing the size of a dataset

○ Predicting the price of a house using the square footage

○ Finding clusters in the data

You have used 0 of 2 attempts

Question 5

1 point possible (graded)
What should be a prime concern for storing data?

- Data safety and privacy

- Hiring the right database manager

- The size of the files

- The physical location of the servers

- Hadoop clusters

Submit   You have used 0 of 2 attempts

Question 6

1 point possible (graded)
What is a good starting point for data mining?

- Data Visualization

- Writing a data dictionary

- Non-parametric methods

- Creating a relational database

- Machine learning

Submit   You have used 0 of 2 attempts

Question 7

1 point possible (graded)
Complete the following sentence that best explains why business needs to capture data: At the end of the day, for businesses, they know one thing, that if they are unable to measure something :

- they are unable to graph it

- they are unable to improve it

- they are unable to show compliance with tax laws

- they are unable to facilitate meetings between sales and marketing

Submit   You have used 0 of 2 attempts

Question 8

1 point possible (graded)
When establishing data mining goals, the accuracy expected from the results also influences the:

○ The timelines for the project

○ The scope of the project

○ The costs

○ The presentation

○ Data scientist

Submit   You have used 0 of 2 attempts

Question 9

1 point possible (graded)
When processing data, what factor can lead to errors in data?

○ Synchronizing the database

○ Changing services providers

○ Renaming variables

○ Human error

○ Overfitting

Submit   You have used 0 of 2 attempts

Question 10

1 point possible (graded)
A good data scientist should ?

○ calculate confidence intervals

○ be sceptical

○ use complicated models

○ only use big data

Submit	You have used 0 of 2 attempts

Congratulations on completing the final exam!

Please make sure you have submitted each response. (Responses **not submitted** will not be evaluated.)

Note - to successfully complete the course, you must attain a Total Grade of at least 70%. This total grade is made up of 50% of the Review Questions completed after each module and 50% of the Final exam.

Please proceed to the **Progress page** to determine if you have successfully completed the course.

Course   Discussion   Wiki   **Progress**   Instructor

Once you have reached the progress page, please see the Total Grade (The last bar on the graph) to determine if you have successfully completed the course. The pass grade will be noted on the left of the graph as below. Note that you will see a Request Certificate button above the graph if you have earned your certificate. Please select the Request Certificate Button. Once this is done, the button will be replaced with a View Certificate button.

To Claim your certificate please select the View Certificate button. You can then "print" your certificate to your device.

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Please **go into the course**, navigate to the section marked Certificates and Badges. You will be able to claim your badge there.

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