

Peer-graded Assignment: Final Assignment

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project

Submitted on February 11, 2020

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<p><b>PROMPT</b></p> <p>Which topic did you choose to apply the data science methodology to? <b>(2 marks)</b></p> <p>Emails</p>	<p><b>RUBRIC</b></p> <p>Did the student pick one of the three topics proposed in the assignment overview?</p> <div><div><div></div></div>0 points No</div> <div><div><div></div></div><b>2 points</b> <b>Yes</b></div>
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<p><b>PROMPT</b></p> <p>Next, you will play the role of the client and the data scientist.</p> <p>Using the topic that you selected, complete the Business Understanding stage by coming up with a problem that you would like to solve and phrasing it in the form of a question that you will use data to answer. <b>(3 marks)</b></p> <p>You are required to:</p> <ol style="list-style-type: none"><li>Describe the problem, related to the topic you selected.</li><li>Phrase the problem as a question to be answered using data.</li></ol> <p>For example, using the food recipes use case discussed in the labs, the question that we defined was, "Can we automatically determine the cuisine of a given dish based on its ingredients?".</p> <p>Now a days when we subscribe a subscription they will send you alot of messages and it will become useless for any one to open every mail and check that to go through the mails, so you may on the basis of data analyst you may deleate hem by filtering them.</p>	<p><b>RUBRIC</b></p> <p>The student is required to come up a problem related to the topic they selected and the problem must be phrased as a question that can be answered using data. Use your best judgement to rate the student's completion of the Business Understanding stage.</p> <div><div><div></div></div>1 point Poor. Some description is provided about the problem, but the question to be answered is missing.</div> <div><div><div></div></div>2 points Good. The problem to be solved is described and a question is submitted but the question does not match the problem described.</div> <div><div><div></div></div><b>3 points</b> <b>Excellent. The student gave sufficient description of the problem, and the question to be answered reflects the problem described.</b></div>
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<p><b>PROMPT</b></p> <p>Briefly explain how you would complete each of the following stages for the problem that you described in the Business Understanding stage, so that you are ultimately able to answer the question that you came up with. <b>(5 marks):</b></p> <ol style="list-style-type: none"><li>Analytic Approach</li><li>Data Requirements</li><li>Data Collection</li><li>Data Understanding and Preparation</li><li>Modeling and Evaluation</li></ol> <p>You can always refer to the labs as a reference with describing how you would complete each stage for your problem.</p> <p>1. Analytic approach: How can we use the data to answer the question? In this case, using the data and the decision tree. We can classify as, which ones were opened and which ones were hardly opened and how frequently opened and did you opened in last 3 months, etc..</p> <p>2. Data requirements: what type of data we need? From where we will get it? How we will use it to answer the question? In this case, we need the Promotional data which is not important ( Luckily google identifies important/ personalized emails and mark it as important). find the read and unread data, date recently opened data and you can find the date range of the data too and determine if person is using it or not. Using data visualization try to get answer.</p> <p>3. Data collection: Know the source of the data or you know where to find it. after the actual data collection, data scientist will whether we have what we need or not. Do we need more data or less data or is there any gap between data. if data is data is unavailable then make a decision about it. In this case, promotional emails from email account is the source. Then Which promotional emails came today and we will add to the list. Then is there any more promotional emails may be coming weekly, alternate days, bi weekly or monthly. Do we need monthly ? Are there more emails other than this which is junk? Take decision about it ...can we defer from it now and come back later if required.</p> <p>4. Data understanding : is the data that you collected represents the problem to be solved? We can use the histogram or pie chart for all different emails and see the distribution. We can go back to data collection and get more data if required. It is a iterative process.</p> <p>5. Data preparation: it is a process of getting data in a state where data may be easier to work with. We are preparing the data for modeling. What are the ways in which data is prepared? In this case. While collecting email data you may find duplicate data, like chronicle review, and chronicle Hi will be counted twice, or jcp and groupon jcp.. so we have to remove them.. this can be done I just searching by emails. If there is less email from then probably we can remove from our data.</p> <p>6. Model and Evaluation: In the following flowchart No to each leaf means Unsubscribe.</p> <p>Opened emails --yes-&gt; 3months ago? --yes-&gt; checking once a week? --yes-&gt; Keep   No   No   No v v v unsubscribe unsubscribe unsubscribe</p> <p>7. Evaluation: Lets take a test by taking 5 different subscribed and see the output. If result is satisfactory then use rest of training set from the data and try to solve the problem. If not then go back to model again.</p>	<p><b>RUBRIC</b></p> <p>The student is required to explain how they would complete each stage for the problem that they described in the Business Understanding stage. Use your best judgement to rate the student's description of each stage.</p> <div><div><div></div></div>1 point Poor. Many stages are missing and insufficient description is provided.</div> <div><div><div></div></div>3 points Good. At least three stages are described and the description is clear and applies to the question defined in the Business Understanding stage. However, some stages are missing.</div> <div><div><div></div></div><b>5 points</b> <b>Excellent. All stages are described appropriately and the description is clear and applies to the question that they defined in the Business Understanding stage.</b></div>
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