✓ Practice Peer-graded Assignment: Assignment 1

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

Instructions

My submission

Review classmates

DoS Attack Detection in IoT Sensors Data   Discussions

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November 2, 2018   ♡ like   ⚑ Flag this submission

PROMPT

Try to explain in your words why a process model and architectural decision guidelines are needed in data science projects

According to the Architectural Thinking in the wild west of data science, author issued some valuable insights for making a industry and large scale projects. Following are the reasons why we need a process model and architectural decision in data science projects:

Technology Blindness: In this case many of the developers solves problem using different tools and frameworks. They are solving a problem but they are not making a product which can be useful for normal people. Hence for small scale project PoC, Hackathon and Start-Up style is fine. But for large scale architectural decision guideline should be followed.

Reproducibility and Reusability: Most of the times developers do the same thing over and over. Lacking in knowledge of existing frameworks they tend to reinvent the wheel. This creates overhead. For large scale project we need collaboration with each other. For this we have to know how to reuse other's code, framework rather than defining your own.

Collaboration: Collaboration is must to run a data science project. We have to understand one can not know everything. You can be an expert of all fields. Data Science Project sometimes need biological, chemical, Physical field knowledge which a Data Scientist can not possess.

So these are the facts that we need process model and architectural decision.

RUBRIC

From the answer, please judge if the learner has read and understood the documents on the process model and architectural decision guidelines

○ 0 pts
  No

○ 1 pt
  Yes

PROMPT

Please describe your use case and data set

I am using dataset from Kaggle. The dataset topic is DS2OS Traffic Traces. The dataset can be found in this link: https://www.kaggle.com/francoisxa/ds2ostraffictraces. This datasets contains communications between different IoT nodes. All these nodes are part of a common middle-ware, the DS2OS. The communications are gathered from 3 different IoT sites. My Use Case for this dataset that i want to find out if the signal sent from iot data contains any abnormality or not. There is a column for normality in training set. So, it is a classification problem.

RUBRIC

Please try to judge if the use case and data set is interesting and challenging enough to be an interesting capstone project

○ 0 pts
  No

○ 1 pt
  Yes

coursera

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