EDYODA DIGITAL UNIVERSITY

Data Science Certification Exam - Test 2

Question 1 [Marks 40]

You work in a news agency & are responsible for identifying the most important topic for writing articles by your content team. Develop a Jupyter Notebook which on executing every time shows top 10 Twitter trending topics in India in the last 24 hours. Hints: Connecting with Twitter API. Bringing Dashboard-like behaviour in Jupyter notebook.

Question 2 [Marks 40]

Epilepsy is a nervous system disorder that affects movement. The dataset contains 195 records of various people with 23 features that contain biomedical measurements. Your model will be used to differentiate healthy people from people having the disease. Target Column is 'status'. Identify the model with the best params. Data Link – https://github.com/edyoda/data-science-complete-tutorial/blob/master/Data/epilepsy.data

Question 3 [Marks 40]

Predicting Shopping Mall Sales. You will have to create a model to predict revenue. Identify the model with the best params. Target Column – Revenue. Data Link – https://github.com/edyoda/data-science-complete-tutorial/blob/master/Data/Shopping_Revenue.csv

Question 4 [Marks 80]

Student Attendance Dashboard for Decision Making. You will be given a Google Sheet with different sheets holding data of different classes. Create a dashboard showing a summary of what's happening across different classes. Which students need attention for missing sessions? Which students are unsatisfied? Which students are very satisfied? <Date> Column shows attendance. R-<Date> Column shows the rating by the candidate. Extra marks for identifying more useful insights. Missing values of the Type column can be treated as STUDENT. This data gets updated on a daily basis. The latest data gets injected in early columns. Your code

shouldn't need any changes to deal with the latest data. Data Link -
https://docs.google.com/spreadsheets/d/1Y_g6LQI2GLqpKf-fj-rH7D9gfnP2
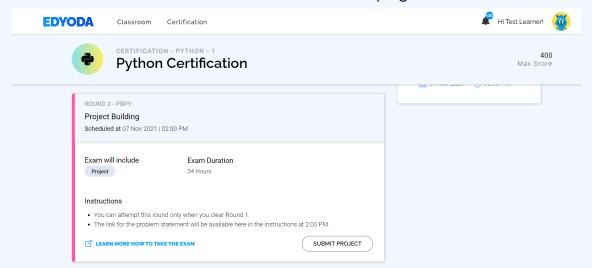MJzpFA6t0AsBMi8/edit?usp=sharing

Grading Details

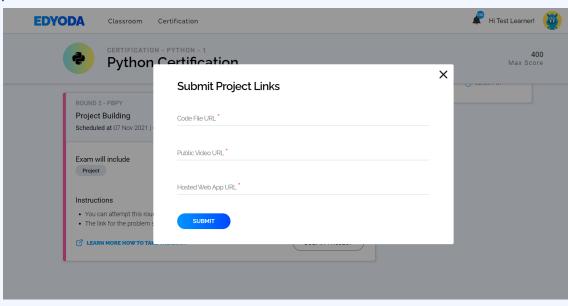- **Total Grades:** 200
- **Passing Grades:** 150

Submission Details

- ***You have to submit the Jupyter notebooks for all 4 questions***. You
  don't have to use PowerBI. Please upload all your notebooks in a
  folder on Google drive. Please ensure that the folder is available
  publicly or else the grading team will give you zero marks. To check
  that please try to open the URL in incognito mode. You have to share
  the public URL of this google drive folder.
- ***Please ensure that you DO NOT COPY the code from your batch
  mates or the internet. Our proctoring tool will detect plagiarism
  and you will receive zero marks in the exam.***
- ***Please DO NOT share your code publicly. If anyone copies your
  code then both you and the other person will receive zero marks.***
- You have to submit the code URL on the certification details page on
  the classroom portal. Follow the steps below:

- Goto Round 2 card on the certification details page

- Click on the "Submit Project" button
- Fill the form in the popup and submit. Your project does not require a video URL and hosted web app URL so you can simply paste the code URL itself.

- Please ensure that you make your submissions on time. **No late submissions will be accepted.**