Stylumia Internship Drive

Machine Learning Problems:

1. Download the Data set from:
   https://www.kaggle.com/francksylla/titanic-machine-learning-from-disaster/
   From the given CSV data come up with 5+ inferences or insights from the data.
   Example:
   1. Females are more likely to survive by 60% compared to Males
   2. Children who are from upper socio-economic status have a 40% more chance of surviving compared to children of other socio-economic status. In the upper socio-economic status girls have a 70% chance of surviving.

   Give relevant numbers and visualization for each inference.

   Submit a **Jupyter notebook** with proper comments and meta text

2. Download the dataset from:
   https://www.kaggle.com/uciml/student-alcohol-consumption/home
   Build a comparative study of different machine learning models (min 3) and compare them based on various metrics and give reasoning for the results.

   Submit a **Jupyter notebook** with proper comments and meta text along with visualizations.

How to submit?
We would like you to push your notebook to github and send us the link to:
- rajdeep.pal@stylumia.com
- ishan.ojha@stylumia.com

Software Development Problem:

Design and build a blog which at least consists of the following functionalities:-

1) A user can create an account.
2) A user can post.

What are we expecting?
- It should be a fully working web application which should contain frontend, backend and a database to store the contents.
- The code should be clean and readable.

- It should contain a **design document** (High-level design of all the components in your application) and a **README file** which will have the steps to run the application, all the assumptions you made while building the application and screenshots with walkthrough of usage.

How to submit?
We would like you to push your code to github and send us the link to:
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- ishan.ojha@stylumia.com

What will make it better?
- Writing test cases at least for the major functionalities.
- Added features may lead to higher weightage to your submission.
- Being creative

Candidates can choose to submit solutions to either or both the sections given above. If, only one is chosen, you will be considered only for that profile. In case both are submitted, the candidate will receive a higher weightage for the internship selection.