PROJECT GUIDELINES

PHASE	TASK	Detailed Deliverables	Due Date:
Project Organization	Setup	Setup your GitHub account that will have all your deliverables. Create a repository in your GitHub to place all your project deliverables. Tip: You can create 4 folders inside the repository like: Folder 1 - Business Understanding & Problem Discovery Folder 2 - Data Acquisition & Understanding Folder 3 - ML Modeling & Evaluation Folder 4 - Delivery & Acceptance	OCT.28, 2020
Business Understanding & Problem Discovery	Statement of Work SOW (V1)	Develop a rational statement based on a business a problem statement. Refine the problem statement to ensure alignment with the identified proposed solution. Identify the data requirements and related data sources to assist in solving the problem statement. Create a set of data assumptions, limitations, and constraints required to move forward with the data. Define the test process that you will use to guarantee the quality of your work.	OCT.28, 2020
Data Acquisition & Understanding	Data Aqusition and Understanding + SOW (V2)	Perform exploratory data analysis to identify main characteristics within the data. Determine preliminary data manipulations requirements (i.e. harmonize, rescale and/or clean) Perform statistical analysis to identify data patterns and correlations. Discuss the benefits of feature engineering for optimal model output. Identify key candidate features between synthesized and real data for model input. SOW updated with all this information.	NOV.23, 2020
ML Modeling & Evaluation	Modelling	Evaluate learning algorithms and frameworks to help solve the problem statement. Assess and select appropriate software tools to successfully work with the data and model(s). Discuss model(s) architecture and software pipeline needed to successfully create the proposed solution. Assess dataset assumptions, limitations, and constraints in order to develop effective models.	NOV.23, 2020
	Prototyping	Prototype the proposed model architecture using the selected software. Begin feeding data into model architecture and observe output. Begin necessary model tweaking in order to ensure desired results. Evaluate model and consider alternatives if necessary.	NOV.23, 2020
Delivery & Acceptance	Delopyment	Development of software pipeline to host proposed model solution (cloud-based). Development of solution end-point to be consumed via service by the final user. Submit a document iwth only your GitHub link. Be ready to be invited to present your project demo in a 1:1 meeting with Marcos Bittencourt and 2 other invitees.	DEC.18, 2020

NOTE:

(1) ALL DELIVERABLES SHOULD BE POSTED ON YOUR GITHUB REPOSITORY.

(2) YOU SHOULD FOLLOW THIS PROJECT PLAN CONSIDERING THE DUE DATES.

(3) NO FILES WILL BE ACCEPTED VIA EMAIL OR OTHER CHANNEL. ONLY GITHUB LINK.

IN OUR COURSE WEBSITE YOU WILL SUBMIT **ONLY A TXT FILE WITH YOUR GITHUB LINK INSIDE.**