



PROJECT DELIVERABLE 1

Due: February 6th, 2019

Over the course of MAIS202, you will be creating a machine learning based product from a dataset of your choice for your final project. The project is broken down into three components, and they will be your deliverables throughout the bootcamp.

Example: [webapp](#) that uses Computer Vision to estimate people's age.

There will be no limitations to the product. You are free to build anything you want! :)

Submission

This is an individual deliverable. All deliverables should be electronically submitted on Github and completed with the same academic integrity and standards expected at McGill University. Include appropriate citations.

Max length: 1 page

Deliverable Description

The first step of the project is to choose the dataset that you want to work with and propose your project idea.

1. Choose your dataset

You can choose any public dataset of your choice (don't forget to cite them!). There are also a couple of useful databases that are available: [Google Dataset Search](#) and [Kaggle](#). Explain the reasons why you choose this dataset.

2. Methodology

Describe how you plan on approaching the project. This should be a **high level** overview of your plans, and this will allow us to judge the feasibility of your project. Be as thorough as you can, so we can give you critical feedback.

i. Data Preprocessing

Is the dataset you chose feasible? What information provided is/are the most useful? How are you planning on preprocessing the dataset to extract this information?

ii. Machine learning model

What do you want predict/estimate from this dataset? Propose a machine learning model/algorithm for it, and explain your reasoning. Have you considered other alternative models? What are the pros and cons?

iii. Final product conceptualization

For demo purposes, we want you to be able to showcase your project on a web page. For those of you who have experience, you are welcome to integrate your model in more sophisticated technologies (eg. mobile, hardware, webapps). Keep in mind that this is machine learning course, so we will not providing significant guidance for software dev related topics. Work with something that you are comfortable with :).

In this section, simply indicate your choice for the final product and describe the technologies that you plan on using. This is not final, you can always change through the semester, just keep us updated.