

AML-2203 Advanced Python AI and ML Tools

Project

(40% of Final grade)

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| **Instructor:** | Vahid Hadavi, PhD, P.Eng |
| **Class:** | **AML-2203** |

# Description

Students should form teams of 4-6 ppl and pick a project topic.

-The project for this course should be mainly based on large amount of data (more than 20,000 records is favorable though data should not be less than 5k records) including numerical and textural data. If you are providing the data trough any online resource, you need to make sure that the data is not pre-processes and cleaned as you MUST perform and demonstrate your data cleaning and preprocessing in this project.

-Students may utilize various state of the art machine learning techniques (predictive modeling, recommendation systems, classification, regression, clustering and etc) to complete the project. Minimum 2 ML algorithms and full analysis of results is mandatory.

-Students should clearly demonstrate their data preprocessing and visualization as well as other steps in their solution pipeline.

-Students may procure the required data using online resources/available data repositories or scrape data from possible resources such as tweeter, kijiji, LinkedIn and etc. (If you are using the collected data from any online data repositories that data should not be already cleaned)

-Students should first share the project proposal for the approval of the instructor and may kick start the project after instructors approval.

-Students are supposed to submit the following components on the project due date :

1- Jupyter Notebook including all the different parts of the code

2- The utilized data

3- A comprehensive report including adequate explanation of the project with all the details.

4- The ppt file for presentation.