LSML2 Final Project Design Document

1) Users:

Any user who is willing to tweet in Twitter and not sure if his/her tweet could cause any potential repurcussions (good or bad)

2) Product Features:

This webapp is a simple application which classifies if the tweet that you are willing to post is toxic (can have negative sentiment) and non toxic (can have positive sentiment)

3) Project Deadlines:

This is a continuous integration project where in the web app is always running and if there are any maintenence activities, the users will be notified upon visiting the website.
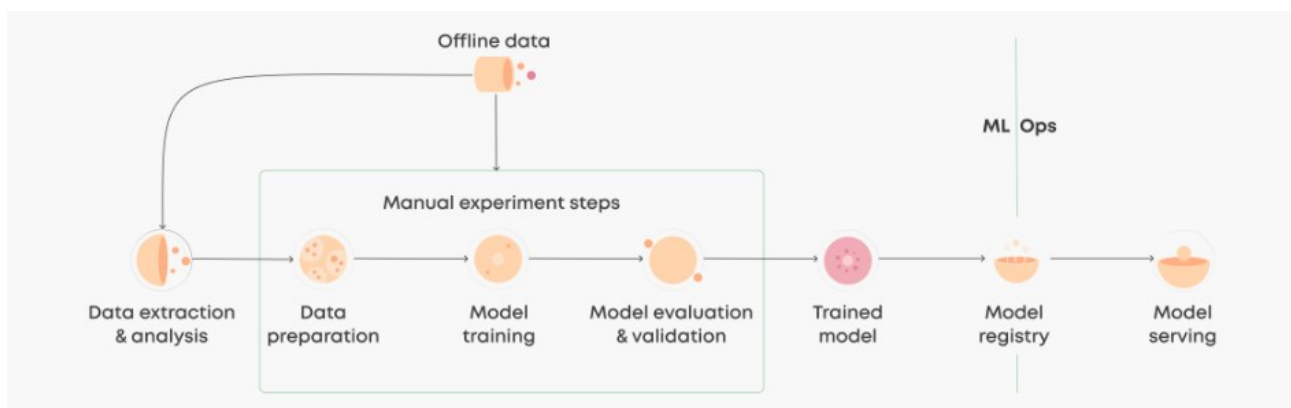
4) Implementaion Details:

Presently version 4 of the project is pushed to the production among the 4 other release candidates (v1, v2, v3, v5) as its seems to work nicely with test data.
After further tuning the project, the active working version will be pushed to production

5) Design Decision:

The decision to go with the decision of classification was pretty evident as its a binary classification task (Toxic or Non Toxic) as the problem as just two labels.

6) General PipeLine:

Source: https://valohai.com/machine-learning-pipeline/

As we see above, we follow the exact pipeline mentioned above.
The tools used are the following
- Pycharm
- ML Flow
- Docker
- SQL Database
- Flask