# Weekly Project Meeting Minutes

*The main purpose of the document is to capture all the work that has been done by the group over the course of one week and* ***not*** *to write down what was discussed in a single meeting. You should be meeting and/or working throughout the week*.

Time group spent on project: \_\_\_\_\_8 hours\_\_\_\_\_\_\_\_\_\_

Group Number: 01

Group members present (Name, ID):

* Jasleen (0734327)
* Arvind Sharma (0730475)
* Harpreet Kaur (0733894)

Specific Activities from prior week:

* List brief description of activities carried out **by group member**

This week we started the work by dividing the workload between us as Harpreet will do the python notebook file, Jasleen will do the flow diagram model for the project and Arvind will search for the literature review. We started searching for the flow diagram in the previous five literature reviews we studied, and we came across the business development and the necessary steps we perform in this project.

For the python file we load the dataset into the python, import all the necessary libraries into file and then loaded the dataset. After that we have done the overview and description of the dataset to get the useful knowledge about that.

Data cleaning has been done as we have four not use full column in the dataset and some values as -1 which will affect the mean and correlation of the project, so we remove that.

Specific Output from prior week:

* Include brief summary of any written work, experiments, or code developed

Written literature review is attaching with this meeting minutes also the python code we have done so far is attached.

* Attach actual output as a separate file when submitting minutes; for example, export your Jupiter notebook as an html file and upload that with your minutes

Yes

On Target:

* Indicate the current status of your project
  + \_\_\_\_\_ green: everything on track for completion by due date



* + \_\_\_\_\_ yellow: a small number of tasks are off track and completion by due date is at risk
  + \_\_\_\_\_ red: many tasks are off track and project will not be completed by due date

Challenges/Disagreements:

* List any particular challenges identified/discussed and possible solutions

This week we came across two challenges that was the cleaning of the dataset and the flow diagram. We were discussing that which tool is better to clean the dataset python or excel. As our dataset is large it become impossible to clean that is excel so we decided to go with python and remove unnecessary column and values which will affect the result and prediction in future.

In the flow diagram, we were bit confuse regarding the flow of the project to select the keyword correspond with the work and we search the literature review to see if any flow diagram model has been done by them and there was none so Jasleen did the flow diagram model building.

* + include tasks causing a yellow or red flag for your project
* List any notable disagreements and subsequent discussion and resolution

Planned Activities for coming week:

* List brief description of activities **by group member**

In the next week we will be starting the visualization of the dataset, correlation to check the important feature of project and how to pursue that also the activities given by shahid sir in the lecture.

* Make sure tasks are assigned to address yellow and red flag items Surely the task is assigned to green flag.

**Literature Review:**

1. Literature Review on Mortgage Default

Link: (2020). Literature Review on Mortgage Default. (2020). Retrieved 5 March 2020, from <https://www.ukessays.com/essays/economics/literature-review-mortgage-default-7347.php>

1. Loan Approval Prediction based on Machine Learning Approach

Link: (2020). Retrieved 5 March 2020, from http://www.iosrjournals.org/iosr-jce/papers/Vol18-issue3/Version-1/O1803017981.pdf

<http://www.iosrjournals.org/iosr-jce/papers/Vol18-issue3/Version-1/O1803017981.pdf>

1. Loan Prediction Project using Machine Learning in Python

Link: Loan Prediction Project using Machine Learning in Python - CodeSpeedy. (2020). Retrieved 5 March 2020, from https://www.codespeedy.com/loan-prediction-project-using-machine-learning-in-python/

<https://www.codespeedy.com/loan-prediction-project-using-machine-learning-in-python/>

1. A Case Study of the Mortgage Application Process

Link: (2020). Retrieved 5 March 2020, from http://faculty.haas.berkeley.edu/levine/papers/A%20Case%20Study%20of%20the%20Mortgage%20Application%20Process.pdf

<http://faculty.haas.berkeley.edu/levine/papers/A%20Case%20Study%20of%20the%20Mortgage%20Application%20Process.pdf>

1. The Role of Technology in Mortgage Lending

Link: (2020). Retrieved 5 March 2020, from https://www.newyorkfed.org/medialibrary/media/research/staff\_reports/sr836.pdf

<https://www.newyorkfed.org/medialibrary/media/research/staff_reports/sr836.pdf>

1. The Use of Agile on Mortgage Application

Link: (2020). Retrieved 5 March 2020, from https://thesai.org/Downloads/Volume5No9/Paper\_11-Case\_Study\_The\_Use\_of\_Agile\_on\_Mortgage\_Application\_Evidence.pdf

<https://thesai.org/Downloads/Volume5No9/Paper_11-Case_Study_The_Use_of_Agile_on_Mortgage_Application_Evidence.pdf>

1. Short Term Prediction of Mortgage Default Using Ensembled Machine Learning Models.

Link: (2020). Retrieved 10 March 2020, from https://www.researchgate.net/profile/Jesse\_Sealand/publication/326518013\_Short-term\_Prediction\_of\_Mortgage\_Default\_using\_Ensembled\_Machine\_Learning\_Models/links/5b51de7baca27217ffa788bb/Short-term-Prediction-of-Mortgage-Default-using-Ensembled-Machine-Learning-Models.pdf

<https://www.researchgate.net/profile/Jesse_Sealand/publication/326518013_Short-term_Prediction_of_Mortgage_Default_using_Ensembled_Machine_Learning_Models/links/5b51de7baca27217ffa788bb/Short-term-Prediction-of-Mortgage-Default-using-Ensembled-Machine-Learning-Models.pdf>

**Flowchart:**

