# **Length of Stay Prediction**

# 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: 6 Hours

Group Number: 11

Group members present (Name, ID):

* Kanchan Bagga (0732356)
* Jaspreet Kaur (0)
* Varinderjit Singh (0730482)

Specific Activities from prior week:

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

**Varinder :** Python coding and Data exploration in SQL.

**Kanchan :** Dataset exploration and data cleaning in Excel. Finding relation between variables. Studying other related projects.

**Jaspreet :** Study about related models, projects and methods.

* Explore the dataset for exploratory analysis.

**Kanchan :** Merged all required variables in one single file for cleaning purpose. Created a new variable that describes LOS for hospital by finding the difference between admission time and discharge time. Created one newer column that describes LOS in Emergency Department by finding the difference between ED registration time and out time.

**Varinder :** Studied about CNN and model building.

**Jaspreet :** Studied about CNN and watched tutorials for the use of CNN.

* Create a model and calculate the accuracy of a model.
* Decided three major tasks and divided each task among each other.
* Still learning and implementing model building coding.

Specific Output from prior week:

* Include brief summary of any written work, experiments, or code developed
* After exploratory analysis we build a model and checked the performance of a model.
* Studying CNN and other models that can used in our project for the prediction of LOS.
* Looked work done on related projects.
* Watched some tutorials related to our topic.
* Attach actual output as a separate file when submitting minutes; for example, export your Jupyter notebook as an html file and upload that with your minutes.

On Target:

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

Challenges/Disagreements:

* + include tasks causing a yellow or red flag for your project
  + Main challenge is implementing neural network in this project.
  + Still working on dataset and finding best features which effect the LOS in emergency department of hospital.

**Planned Activities for coming week:**

* Model building (Varinder)
* CNN working and tutorials. It will be continued till completion (Jaspreet)
* Analyze and explore more dataset till we get all possible relations among variables (Kanchan)
* Study about other models which we will use in this project (Kanchan)

Three major tasks:

* Working on python until we complete this project. (Varinder).
* Learning about CNN and linear regression we will implement it in this project. (Jaspreet).
* Learning about decision trees. We shall implement it in project and at the end we shall compare the accuracies for all models. (Kanchan).
* Writing meeting minutes and making final report will be accomplished till the end of the submission. (Kanchan).
* Starting report writing.