Python Machine Learning Continuous Assessment Part 1

Write Up

Team 1

Group Members:

Gao Yumengdie

Kaung Htet Win

Kolanjhikannan Akshayahasinee

Lin Lin Thant

Park Jun Suk

Sharmaine Cheng

# **Logistics Regression**

## Valid Inputs

Graphical user interface, text, application, email

Description automatically generated

* The model is most accurate for height inputs 123 - 199cm, and weight inputs between 35 - 129 kg. Values outside of these ranges are extrapolation and may not be accurate.
* Valid inputs should be in float type.
* Example:
  + Enter Height in cm = 170
  + Enter Weight in kg = 65
  + Click ‘Submit’ and predicted gender will be displayed.

## Invalid Inputs

### Required field validation

Graphical user interface, text, application, email

Description automatically generated

* User leaves input fields as blank.
* ‘Height/Weight field is required’ validation message will be displayed.

### Input format validation

Graphical user interface, text, application, email

Description automatically generated

* User enters texts instead of numbers in fields.
* ‘The value is not valid’ validation message will be displayed.

### Input range validation

Graphical user interface, text, application, email

Description automatically generated

* User enters numbers that are out of range.
* ‘The field Height/Weight must be between 0 and 1000’ validation message will be displayed.

# **Time Series Moving Average Valid Inputs**

Graphical user interface, text, application, email

Description automatically generated

* The model returns the 5 month rolling average for a given period
* Valid inputs should be integer type.
* Example:
  + Enter Month = 15
  + Click ‘Submit’ and the 5 month rolling average rainfall will be calculated.

## Invalid Inputs

### Required field validation

Graphical user interface, text, application, email

Description automatically generated

* User leaves input fields as blank.
* ‘The Month field is required’ validation message will be displayed.

### Input format validation

Graphical user interface, text, application

Description automatically generated

* User enters texts instead of numbers in fields.
* ‘The value is not valid’ validation message will be displayed.

### Input range validation

Graphical user interface, text, application, email

Description automatically generated

* User enters numbers that are out of range.
* ‘The field Month must be between 1 and 36’ validation message will be displayed.