

Georgia State University



Employee Attrition Enigma

Software User Manual

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Contents

Software Details	3
Jupyter Notebook	Error! Bookmark not defined.

Software Details

Python version used – 3

Jupyter notebook version – 6.4.5

Anaconda version – 2.1.2

Execution Guidelines

The folder *Project Code & Data* consists of the software and the input files, i.e. dataset used for the project. Following are the contents of the folder –

1. *Employee_Attrition_Enigma.ipynb (software)*
2. *employee_survey_data.csv*
3. *general_data.csv*
4. *in_time.csv*
5. *manager_survey_data.csv*
6. *out_time.csv*

The file and the other dataset excel files need to be in the same folder hierarchy. In case either of the files is missing from the file hierarchy, the code snippet in the Jupyter notebook will break.

Employee_Attrition_Enigma.ipynb is the actual software that consists of the python code that imports the pandas, numpy, matplotlib, and seaborn libraries. This file consists of the code that displays the visualization in the form of a heatmap, column charts, box plots, and pairplot charts.

employee_survey_data.xlsx file consists of the survey data carried out by the employees.

general_data.xlsx file consists of the general data about the employees i.e., when did the person join the firm, salary of the person, age of the person, etc. total of 24 columns.

in_time.xlsx file consists of the time at which the employee enters the office to start the day.

out_time.xlsx consists of the time at which the employee leaves the office ending the day.

manager_survey_data.xlsx consists of the survey data about the managers carried out by the firm whose participants were its employees.

The Jupyter notebook consists of cells that have the python code written in it. To execute each piece of code, one needs to visit the cell and click on the ► **Run** menu in the menu bar. After the python code in that cell executes, the next cell in the notebook is highlighted.

If anything is edited in the notebook, one needs to click on *File -> Save and Checkpoint* to save the file.