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# **Student Portal Automation**

***Release 1.0.0***

***Rohan Sai N***

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# Installation

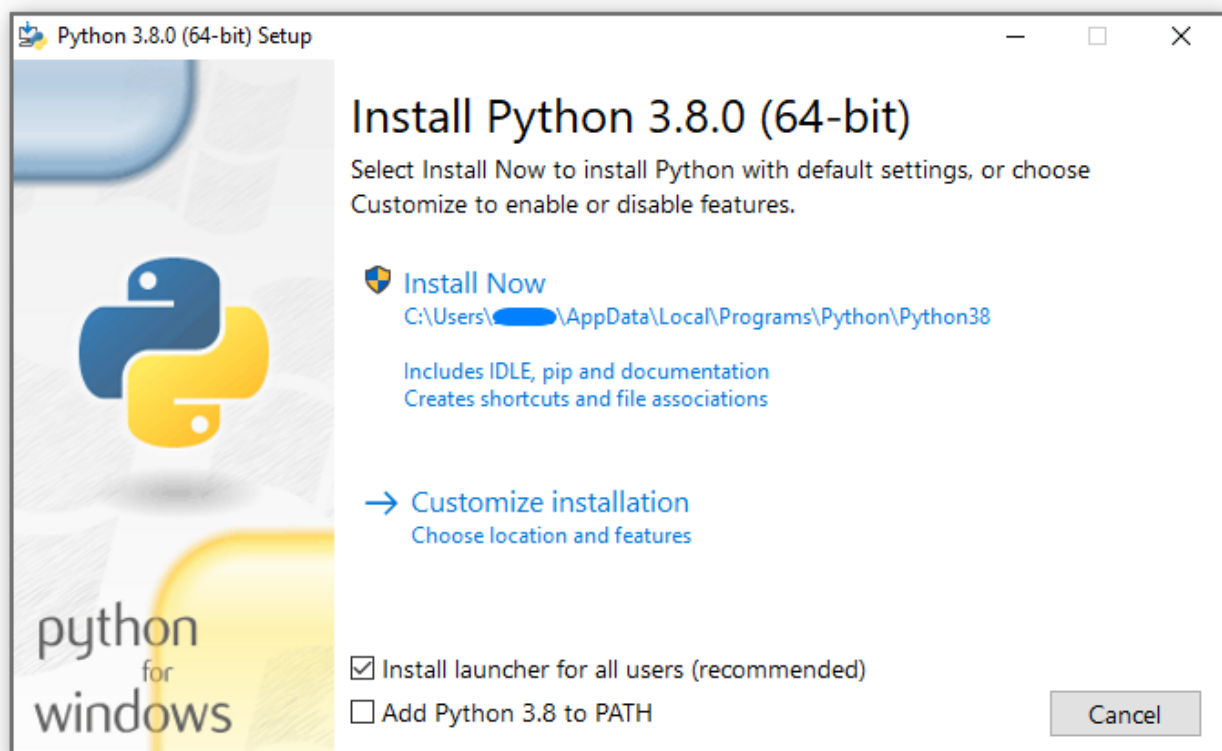
## – Installing Python

If you are a MacOS,Linux user you have python2.x installed by default. But this script is only executed by python3 and above.But, even though if you try to run it with the pre-installed python2.x it will run abnormally or even raise an error.

### *Installing Python3 or above,*

Visit [python.org](https://python.org) and navigate to the **Downloads** page and download and install the latest version of python 3 according to your preference of an executable installer

### **Example – Windows-10**



**Note** - Make sure to add check the box which says, 'Add Python to PATH' and also make sure that the check box which says 'Install Pip' is also checked

If not, Add Python to your PATH manually, this is an essential step if you want to run this script from any directory just by executing the command in the Terminal or Command line.

pip, the main package handler for python is very much required for the script to work, even before running the actual script you are required to run a command for pip to install the 'Required packages' for this project. And also make sure that even pip is also added to the PATH so it can be executed from anywhere.

## - ***Installing Chrome Driver***

This Script is completely specific to the Chrome browser. If you are using an other reputable Browser for the network tasks then this script will show anomalies or even might not work at all.  
**Chrome browser is required.**

Before downloading Chrome driver executable, manually check the **Version** of your Chrome Browser.

Open **Chrome Browser** >  
Click on the '**Three dots**' in the top Right >  
Click **help** >  
Click **About Google Chrome**.

Make note of the version.

To download the Chrome driver executable, visit <https://chromedriver.chromium.org/downloads> select the required version, and download according to your Operating environment (Windows, MacOS).

### ***Adding Chrome Driver to the required PATH,***

After downloading the chrome driver and unzipping, It will have an **.exe** file,

#### **Windows user ~**

installation tutorial ~ <https://youtu.be/dz59GsdvUF8>

\* Or, copy the file and place under the directory /scripts in your python3.x folder if you are a **Windows user**.

\* For **MacOS, Linux users**, copy and place the executable under usr/local/bin in the python3.x directory or and also under /bin in Anaconda Navigator directory if you happen to have it installed.

Do.

**\$cp chromedriver.exe /usr/local/bin**

## - ***Cloning the GIT Repository***

- **With git repository handler :**

Linux, and MacOS systems have **git** version-control system installed by default.

***Cloning the repo ~***

```
$ git clone https://github.com/r0han99/Student-Portal-Automation.git
```

- **Without git repository handler :**

**Direct Download link**

```
https://github.com/r0han99/Student-Portal-Automation/archive/master.zip
```

- **Changing the Directory :**

After cloning or downloading the Repository change the directory into the Repository folder

```
$ cd Student-Portal-Automation
```

- **Installing Requirements :**

To install the dependencies of for this project, run the following script

**Note** - *This following command only works in the directory when you installed python3.x or above and pip and set in in the PATH*

```
$ pip3 install -r requirements.txt
```

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## Usage

*# changing directory to the folder enclosing the scripts.*

```
$ cd automate
```

*# running the Script.*

```
$ python3 automate.py
```



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## Synopsis of each Script

### **Material.py**

Material.py when executed will automate the process of fetching materials from the **G-learn.aspx**, this script will automatically open your browser, login into your student portal and the navigate to the G-learn portal to let you download the subjects data bypassing all the hustle to open, navigate.

### **Status.py**

Status.py is a web spider script, with the inputs the user enters the web spider will automate the process of fetching the attendance data, under the Attendance link. It is also able to fetch details of a particular date from a past month. The data fetched will then be organised and printed for easier understanding of the statistics.

### **Prediction.py**

Prediction.py when executed will scrape the entire attendance records of a particular input month, organise it, re-format it and prints the statistics as a bar plot along with "Present and Absent" Percentage stats. The original intention was to classify the formatted data to possibly create a perfect model to predict the attendance for a potential future date. Model creation and prediction will be the future updates.

### **Permission.py**

This script will automate the process applying for a PERMISSION for a resident student in GITAM.

### **Permissionstatus.py**

permissionstatus.py is web spider which will scrape all the possible application of a Leave or a Permission, the user is prompted with an input request of the Permission he/she applied and wants to check the status, if it is approved or rejected. By the user's input the script will automate the process of manual verification of the approval and print the results.

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If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
```

```
This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.
```

```
This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.
```

```
You should have received a copy of the GNU General Public License
along with this program. If not, see <https://www.gnu.org/licenses/>.
```

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```
<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see [<https://www.gnu.org/licenses/>](https://www.gnu.org/licenses/).

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## License

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read [<https://www.gnu.org/licenses/why-not-lgpl.html>](https://www.gnu.org/licenses/why-not-lgpl.html).

- - - - - **End of License** - - - - -

# Preview Image

## Automate.py



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## Potential Updates

- Better UI
- Voice Prompts
- Automated Installation
- Additional Script to Automate Leave
- Application
- Attendance Prediction
- Local Data Records



**End.**