

# MT&L Trucking CLI TOOL

This is a Python Command Line Tool for updating the Dispatch Tracking Google Sheets spreadsheet with the goal of calculating the salary payout of the driver and the contractor. In addition to the updates to the spreadsheet, google docs pay statements are also being created for the driver and contractor. Ultimately this tool is supposed to automate the work associated with preparing payroll documents.

## Prerequisites

**Operating System:** MacOS (preferred), Windows, Linux

**Interpreter:** Python 3.13 or later

**Version Control:** Git

## Installation

Currently only installation from source is supported, below are the steps

1. Download the repository from the github repository using ssh or https or download the zip file

Using ssh

```
(base) tkucherera:MTL-Trucking$ git clone git@github.com:Tkucherera/MTL_Trucking.git
```

For more detailed information on cloning repositories you can visit this link [here](#):

2. Once the repository has been downloaded change into the directory

```
(base) Tinashes:~$ cd MTL_Trucking/
```

### 3. Inside the directory the structure should be like this

```
(base) Tinashes:MTL_Trucking$ ls -ltr
total 24
-rw-r--r--  1 tinashkucherera  staff   173 Jan 15 21:42 args_example.json
drwxr-xr-x  4 tinashkucherera  staff   128 Jan 15 21:42 config
-rw-r--r--  1 tinashkucherera  staff 1995 Jan 15 21:42 mtl.1
-rw-r--r--  1 tinashkucherera  staff   510 Jan 15 21:42 requirements.txt
drwxr-xr-x  3 tinashkucherera  staff    96 Jan 15 21:42 src
```

### 4. Create a python 3.13 virtual environment

```
(base) Tinashes:MTL_Trucking$ python3.13 -m venv venv
(base) Tinashes:MTL_Trucking$ ls -ltr
total 24
-rw-r--r--  1 tinashkucherera  staff   173 Jan 15 21:42 args_example.json
drwxr-xr-x  4 tinashkucherera  staff   128 Jan 15 21:42 config
-rw-r--r--  1 tinashkucherera  staff 1995 Jan 15 21:42 mtl.1
-rw-r--r--  1 tinashkucherera  staff   510 Jan 15 21:42 requirements.txt
drwxr-xr-x  3 tinashkucherera  staff    96 Jan 15 21:42 src
drwxr-xr-x  7 tinashkucherera  staff   224 Jan 15 21:47 venv
```

### 5. Create a log directory

```
(base) Tinashes:MTL_Trucking$ mkdir log
```

### 6. Activate the the Virtual Environment

```
(base) Tinashes:MTL_Trucking$ source venv/bin/activate
```

### 7. Install the required packages

```
(venv) (base) Tinashes-MacBook-Air:MTL_Trucking tinashkucherera$ pip install -r requirements.txt
```

### 8. Installation is done.

# Setup

## Configuring the SpreadSheetId

In the base directory MTL\_Trucking there should be a config directory

```
(base) Tinashes:MTL_Trucking$ ls -ltr
total 24
-rw-r--r--  1 tinashkucherera  staff   173 Jan 15 21:42 args_example.json
drwxr-xr-x  4 tinashkucherera  staff   128 Jan 15 21:42 config
-rw-r--r--  1 tinashkucherera  staff  1995 Jan 15 21:42 mtl.1
-rw-r--r--  1 tinashkucherera  staff   510 Jan 15 21:42 requirements.txt
drwxr-xr-x  3 tinashkucherera  staff    96 Jan 15 21:42 src
```

Inside that directory there should be a spreadsheet file. Open that file and add the Id of the dispatch tracker spreadsheet. The spreadsheetId should be added as one line.

Note: the spreadsheet id is in the url of the google sheet when opened in the browser

## Configuring the credentials.json

To be able to add credentials there is fairly an amount of work to get the credentials before you can add them. The steps are below.

1. On another note - reach out to developers to get credentials.
2. Once you have the credentials

# Usage

Note: its advisable to add the MTL\_Trucking directory to path.

To add to Path in MacOS in bash:

```
PATH=$PATH:/path/to/MTL_Trucking/src/mtl_cli
```

Also go to the command line and replace the relative import with the absolute path to the virtual environment python interpreter

```
#!/usr/bin/env python3.13

#!/Users/tinashekucherera/MTL_Trucking/venv/bin/python3.13
__author__ = 'tkucherera'
```

Replace the line in red with the line in green and you should now be able to run cli tool from anywhere in your environment

```
#!/usr/bin/env python3.13

#!/Users/tinashekucherera/MTL_Trucking/venv/bin/python3.13
__author__ = 'tkucherera'
```

Otherwise you can also go into the directory to run the script or use the fully qualified path the execute.

```
(base) Tinashes:~ $ mtl.py
usage: mtl.py [-h] [-t TRUCKERS] [-d DATE] [-l LOADS] [-p] [-e .env] [-j args.json]
This cli is used for making payroll calculations the <truckers> is required arg
options:
  -h, --help            show this help message and exit
  -t, --truckers TRUCKERS
                        Comma separated list of drivers:sheetname with the sheet parsed as well: driver_percentage
  -d, --date DATE        The pay date (should be a friday)
  -l, --loads LOADS      The name of the sheet with all the trips default is Trip Sheet
  -p, --prompt           Prompt for the required variables interactively
  -e, --environment .env
                        Use an environment file to parse required arguments
  -j, --json args.json   Use a json formatted file to parse required arguments (recommended)
```

