

Installation instructions

After cloning the repository, Make sure you have Python3.

- <https://www.python.org/downloads/>

Create a new virtual environment and activate it.

```
python3 -m venv /path/to/new/virtual/environment_name  
source /path/to/new/virtual/environment_name/bin activate
```

Now install all the required libraries. Make sure you're inside the project directory before running the command.

```
pip install -r requirements.txt
```

Running instructions

Run program using python or python3

```
python main.py
```

Codebase and outputs

1. Codebase - contains the entire codebase with cgm data, helper functions and config
2. Outputs - contains .csv files of feature matrices, PCA feature matrices, PCA eigenvectors and text file for PCA eigenvalues
3. Plots - contains folders for the plots for each feature and PCA features
4. README.pdf - Quick start readme file.