

# NYC 311 Service Requests Flask App Instructions

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Be sure to have the following packages/libraries installed:

- Python
- Pickle
- Numpy
- Pandas
- kmodes
- Flask
- pickle

Due to the size of the pickled GLM model, the user will either have to create and pickle the model themselves by following the notebook, or use one of the other pickled models which are not as accurate.

## Version A - Using the GLM Gamma Regression Model:

- Fork and clone this repo
- Run all cells in the *data\_gathering\_311* notebook
- Run all cells in the *service\_request\_model* notebook
  - (Do not need to run all models, just the GLM model)
- Be sure to run cells under **Pickling** header
- In the command line, navigate to the repo folder
- Run the following code: `python app_glm.py`
- Open a new browser window and visit local host (URL should be in command line)
- Voila! Website should be active!
- After SUBMIT this will take roughly 20 seconds to run

## Version B - Using the AdaBoost Model:

- Fork and clone this repo
- In the command line, navigate to the repo folder
- Run the following code: `python app_ada.py`
- Open a new browser window and visit local host (URL should be in command line)
- Voila! Website should be active!
- After SUBMIT this should run almost immediately