

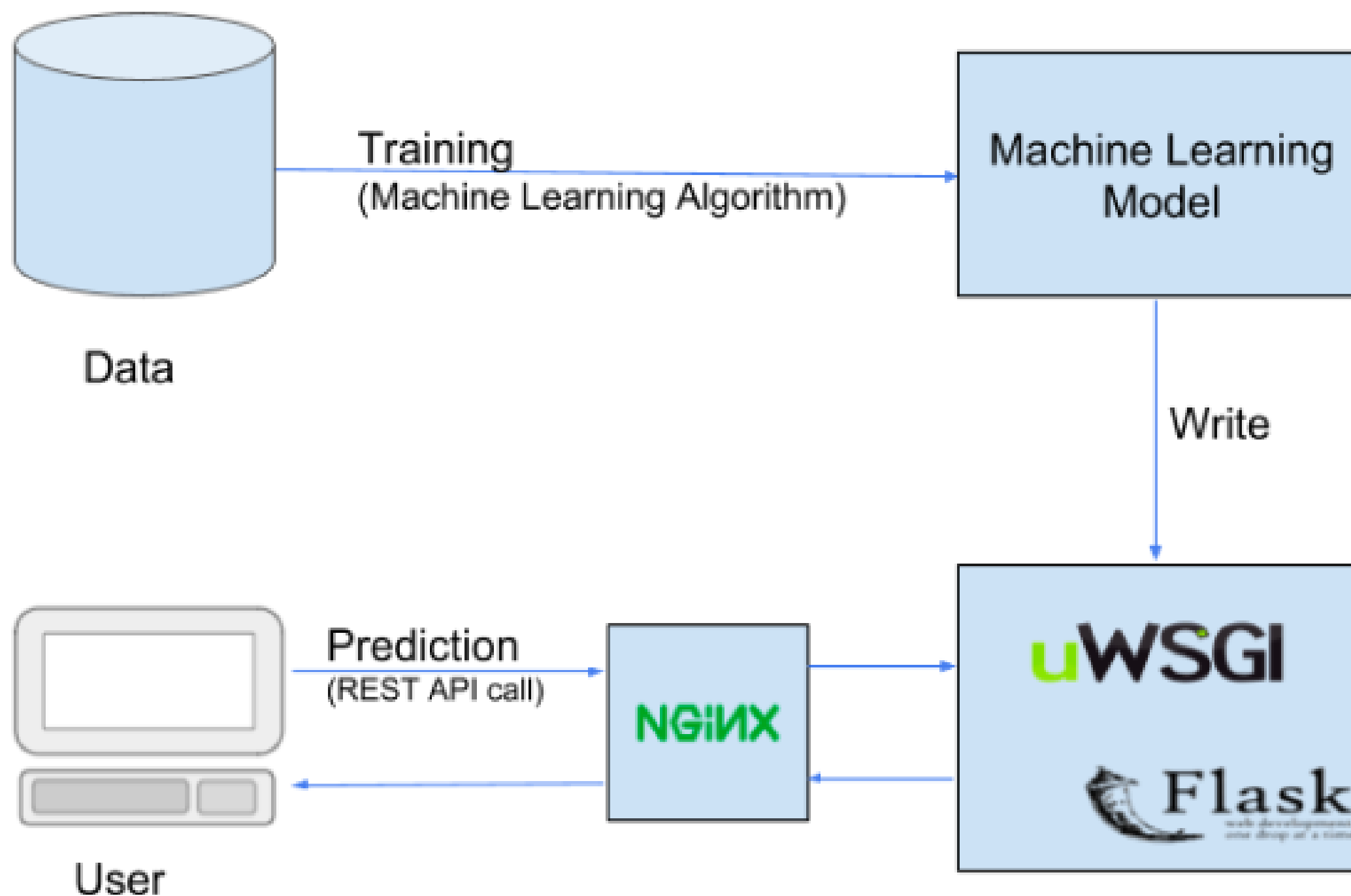
Model Deployment using Flask

Why Flask?

- Easy to use
- Built in development server and debugger
- Integrated unit testing support
- RESTful request dispatching
- Extensively documented



Model Deployment Flow



Project Folder Structure

1. **app.py** – This contains Flask APIs that receives input through GUI or API calls, computes the predicted value based on our model and returns it.
2. **template** – This folder contains the HTML template (base.html & index.html) to allow user to interact with app using Web based GUI
3. **static** – This folder contains the css folder with main.css file which has the styling required for our index.html file. And it also contains js folder with main.js file for actions against each GUI button classes
4. **uploads** – This folder contains any files which were requested via app as POST method
5. **model.pkl** – The trained model pickle file to be used by app.py for prediction

Running the Project

1. Ensure that you are in the project home directory.
2. Make sure you have model.pkl and pca.pkl file
3. Run app.py using below command to start Flask API

```
python app.py
```

4. Navigate to URL <http://127.0.0.1:5000/> (or) <http://localhost:5000>