AI-VVO sdmay22-36
Spring 2022
Update #1

1/17/2022 - 2/3/2022

Front-end (This Week)

- Researched how to make connection to the backend
- Reviewed React Leaflet (markers, polylines)
- Ran into issues with VMs

Front-end (Next Week)

- Continue researching Backend communication (Axios)
- Look into how to get Grid onto Map Based Grid

Back-end (This Week)

- Reviewed the backend code for influx that was created last semester as well as made sure it was all still working on my VM.
- Helped ML team figure out how they will pull data off of the influxDB database.
- Started looking into how to implement the grid data using Neo4j

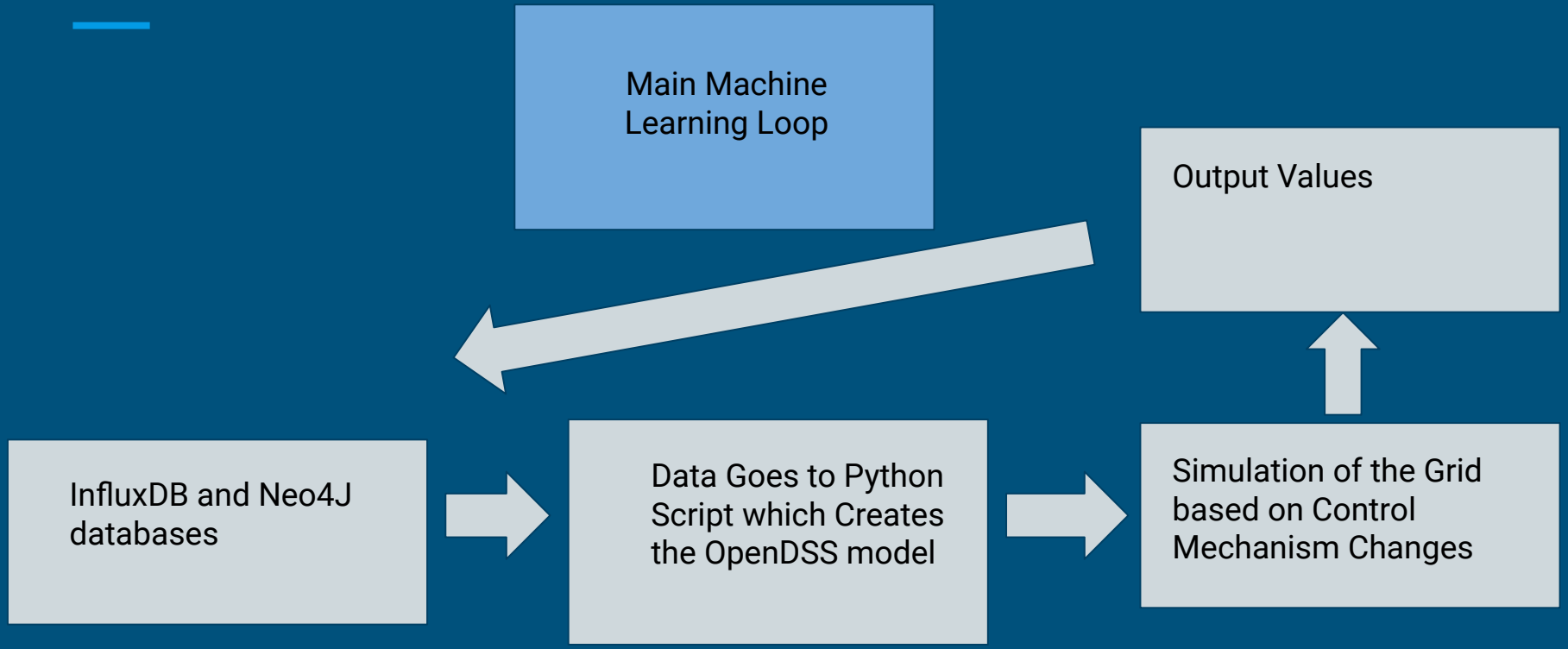
Back-end (Next Week)

- Continue to look into Neo4j
- Figure out a good way to import all the grid data into the Neo4j database.
- Continue to help the other teams pull data off of the databases in order to display or use the data.

Machine Learning (This Week)

- Refactored AIVVONet.py
- Cleaned up and organized the Gitlab repository
- Started with OpenDSS for simulating grid values for main machine learning loop
- OpenDSS is incompatible with Linux
- Coordinated with backend team so that we can have model parameters pulled from Neo4J server and the Influx database

Machine Learning (This Week)



Machine Learning (Next Week)

- Continue with OpenDSS and utilize the Python documentation to develop a model creation automation pipeline from the backend to the Machine Learning application
- Use location data in the Excel data file to develop a geospatially accurate OpenDSS model and simulation testbed