Project WiCCED ML

Student: Rainier Delarosa, Rutgers University - Newark.
RainierDelarosa123@outlook.com

Mentor: Tina Callahan, Matt Shatley, University of Delaware
tina.callahan@udel.edu, mshatley@udel.edu

Researcher: Anita Schwartz, University of Delaware

Date: March 10, 2021
Project WiCCED

Assessing threats and developing solutions to mitigate human, agricultural, and natural pressures threatening water security in Delaware’s changing coastal environment.

https://projectwicced.org/
Project WiCCCED ML

Monitoring

Data Core

Decision Support Tools

State Practitioners & Researchers
Idealized Workflow
Goals

Improve Access to Data (Python/R Code)
- review & improve existing code
- develop new code

Documentation
- Document procedures for accessing data
- Provide Technical documentation on API

ML Modeling
- Working with researchers
- Testing models

Technical Assistance to researchers
- Help others get connected to data
- ingesting data
Timeframe

- 3/1/21: Launch
- 5/1/21: Mid-Point Check and Review
- 8/1/21: Wrap-up
What I hope to learn

– Using API to connect to servers
– working with ML models
– Using R and Python for Big Data retrieval
– How to write proper technical reviews
• Goals for Next Month

Improve Access to Data (Python/R Code)
- review & improve existing code
- develop new code

Documentation
- Document procedures for accessing data
- Provide Technical documentation on API

Goal: Build code to access data and document for research to do this on their own, as needed.
Project WiCCCED ML

• Help needed
  – Second opinion
  – Live support/direction