

CIS 635 - 03 Knowledge Discovery and Data Mining

Environmental Data Mining

Team Members

- Quinton Randall
- Skye Gerald

Progress so far

- Completed Tasks: Detail what portions of the project you have successfully completed up to this point.
 - Data collection and preprocessing has been completed
 - No projects have technically been completed as most of the project is cohesive
- Data: Provide links to the datasets you're utilizing.
 - [Climate Information - Past Weather](#)
 - [Grand Rapids 2020 Climate Graphs \(weather.gov\)](#)
 - [Allendale, MI - Profile data - Census Reporter](#)

Challenges

- Describe how you addressed these challenges. If some challenges remain unresolved, outline your proposed approach to tackle them moving forward.
 - The most challenging aspect is striking a complicated balance between data availability and accuracy. Assuring the accuracy of environmental data is crucial while determining different data metrics. We were able to overcome data quality

issues in environmental data mining by implementing strict validation procedures and applying interpolation to bridge data gaps.

Collaboration (if applicable)

- How frequently does your group meet?
 - Daily
- Does everyone feel like each group member is contributing meaningfully to the project?

If not, how does your group plan address this problem?

- Yes, everyone is contributing meaningfully to the project. Our regular meetings show our commitment to productive collaboration. This regularity improves team relations, fosters communication, and guarantees that our combined efforts stay focused on the goals of the project.

Next steps

- Remaining Tasks: Outline what still needs to be accomplished on your project.
 - We still need to work on model development, model interpretation, model evaluation, and report preparation
- What is your plan to complete the remaining tasks? .
 - Our plan is to divide different models up between each other and share information throughout our findings.
 - We also plan to find different types of data to include given the time constraints.
- Do you foresee any potential challenges?
 - Yes we do see potential challenges visualizing our data onto different graphs and charts.