Our team learnings are based on the following groups:

* Celebr8
* ML Equity
* St. Lukes

One of the first groups we looked into was Celebr8. We learned a lot from Celebr8 about effective design and planning for our project. They created a user-friendly webpage for funeral homes using Sigma, a tool that helped them visualize their design before implementing it. This approach impressed us because we're integrating our models into a website, and planning like this could be very helpful. We also admired their project management skills; they used Zoho for meetings, a platform that their sponsor suggested. What stood out was that Zoho allows business owners to handle everything from one place. Instead of using separate systems, they can manage various tasks using a single dashboard. This straightforward approach not only streamlined their communication but also showed us a practical way to collaborate efficiently.

We also found the ML Equity group to have an interesting and applicable presentation. Their use of an AI tool, MeetGeek, to take meeting notes was particularly interesting. While more research will be needed to determine if this is something we want to implement, it has a lot of potential to be helpful because taking notes during meetings can be inconvenient and take your attention away from the discussion. This group also talked about their experiences using web scraping to collect data. Although we aren’t doing something similar now, this team could be a valuable resource if we find a data source accessible only on webpages.

Another group that really stood out to us was the St. Luke’s group. Their team manages their project with very similar tools such as iMessage to communicate with each other. We learned that their team uses jupyter notebooks to store their data analysis code. Since our team has switched gears to making a time to charge model this semester, we learned that our projects align much more closely. The St. Luke’s team uses a lot of valuable tools that we were able to learn about during their presentation. They use a python package called pycaret, which can be used to create a variety of machine-learning models based on the data you input to the package. Pycaret will evaluate the accuracy of several different models and report the best models. They also use a circular data analysis process to try to improve their model. They preprocess their data, implement their model, and then analyze the output of their model. Based on their analysis, they then return to the data preprocessing cycle and make changes that could possibly improve their model.

Our team will use the learnings from the Celeb8 presentation in our project by presenting the Platform Zoho to our sponsors, seeking their feedback on its potential benefits for our team. Additionally, we intend to utilize Sigma for planning our streamlit website's design by the end of this semester. This approach will help us gain a clearer understanding of the necessary steps to achieve our project goals. From the ML Equity group, we will look into MeetGeek to take meeting notes and see if this is a tool that fulfills a need for us in our weekly meetings. The insight that we see the most potential for our group to use is pyCaret for comparing and selecting a regression model. The St. Luke’s group was successful using pyCaret for a very similar task as ours, so we are hopeful that we could increase our model’s performance by finding the best model from pyCaret. Because the energy consumption model from last semester seems of particular value to the VTA, there is an opportunity to revisit this model with pyCaret as well. We can also incorporate their cyclic strategy for model development. The St. Luke’s team has a process of data preprocessing, model implementation, and model analysis that we can apply to our model for the VTA as well.