

Task 1:

Business Case Analysis

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A: OBJECTIVES

The objective of MLOps, or Machine Learning Operations, is to make building, training, and deploying machine learning models easier and more efficient. Right now, Kronkers has different departments working on different models using different tools, which leads to confusion and delays.

MLOps would help fix this by creating one system that everyone can use to build and update models. This would save time, reduce errors, and make it easier for teams to share their work. It would also make it possible to use models in real time instead of waiting for someone to manually run them. This would help the company get faster results and make better decisions.

B: CONSTRAINTS

One big challenge with adding MLOps is that people at Kronkers use different programming languages. Some use Python, while others use R or Julia. This makes it hard to bring everything into one system.

Also, there is no dedicated role for managing machine learning models, so someone will have to be trained or hired to take on that responsibility. Even though there is some budget available, it is limited, so the company will need to be smart about how the money is spent. On top of that, not everyone in leadership agrees that MLOps is needed, so getting full support may be tough at first.

C: REQUIREMENTS

To make MLOps work at Kronkers, the system will need to handle models written in different languages and store them all in one secure place. It should have version control so people can keep track of changes and know which version of a model is being used. Security is also important, so only the right people can access the data and models.

The system should be able to train and retrain models automatically when needed, and there should be a way to track how well the models are doing over time. It also needs to be available at all times so that teams in different departments can run predictions whenever they need them. Everything should be built to grow with the company, so it does not break as more people and models are added.

References

No outside sources were used except for official WGU course material.