

Week Six Status

11/4/2022

TEAM RAD

Real-time Anomaly Detection

Progress Update Sprint #2

Goals:

- Deploy Pytorch model on Sagemaker endpoint
- Get Kinesis Firehose hooked up to the model.

Gabby Rivera

Kinesis:

- **In Progress** - Specifying formatting for the data streams and researching payload format.
- **Next steps** - Implement a Kinesis firehose and mock data generator connected to our sagemaker model. Gather information on formatting and payload construction for Beth data.
- **Questions** - Looking forward how should decided data be stored if at all?
 - **Answer** - Store output of both flagged data and relevant additional data.
 - S3 -> Athena Analytics
 - Suggestion: RDS

Jared Dunn

Gavin Cutchin

SageMaker:

- **Accomplishments** - Set up S3 bucket to store data. Generated all necessary models used in the BETH dataset to be hosted through SageMaker. Started implementation of SageMaker endpoint.
- **Next steps** - Finish implementation of our model on SageMaker. Another option is also being explored to specifically host PyTorch files on SageMaker in a local environment.
- **Questions** - Should the model be static?
 - **Answer** - Update the model as new data comes in. Leverage hosted Docker containers for the BETH dataset.