

2021-08-13 AI/ML for NFV Meeting Minutes

Attendees

Sridhar Rao

Beth Cohen

Al Morton

Rohit Singh Rathaur

Girish L

Kanak Raj

Steve Casey

Sl. No.	Topic	Presenter	Notes
1	Project Status		- Repo is created : https://github.com/opnfv/thoth https://gitlab.com/anuket/thoth https://gerrit.opnfv.org/gerrit/admin/repos/thoth https://gerrit.opnfv.org/gerrit/settings/#Agreements TODO: Create LF-Ticket to setup Jira.
2	Data Status		3-Approaches: - Use Publicly available. - Request - Create. Tool to emulate failures in K8S cloud. Demo the Cloudstress to stress the K8S cluster, and see if we can create failures of the pods. TODO: Run this tool in Intel-Pod18, and experiment. Data-Source to Failure-Type listing is completed - Failure Prediction using AI/ML in NFV Environments
3	Model Status		Implementation Status. - Decision Tree and XGboost - NN - LSTM with Attention – 90% (visualization errors) - GraphNN — To complete in 1 Data is labelled based on the conditions. This label is used. Before the failure time-steps (60) - 10s for each step. Trying to increase to 300. Casey: Better to do it as the failure-time, rather than before. How many previous time-steps to consider ? Depends on the usecase (Ex: type of the Equipment). 8hrs to 24.
4	AlgoSelection Graph Status		Unsupervised: Working on Gaussian Mixture models. Kanak: Unable to come up with a clear "separation-parameter" at the last level. Jahanavi: