2021-07-23 AI/ML for NFV Meeting Minutes

Attendees

Sridhar Rao

Rohit Singh Rathaur

Girish

Jahanvi Ojha

Kanak Raj

Akanksha

Ildiko Vancsa

SI. No.	Торіс	Presenter	Notes					
0	Introduction of		Jahanvi: IGDTU-Women . In 3rd Yr. Computer Science.					
	Volunteers		Kanak: BIT Mesra. 3rd Yr Math/Computing.					
			Akanksha: BIT Mesra. 3rd Yr Math/Computing.					
1	Thoth as formal project	Sridhar Rao	Action Item: Sridhar to send a formal mail to TSC, requesting for project approval.					
	in Anuket		From next week, Thoth will be a formal project in Anuket.					
			Participation in Lakelse release will be difficult. Targeting 'M' Release.					
2	EUAG Update	Sridhar Rao	We presented at EUAG meeting on 20th July.					
			Action Item: To Create a page in If-euag confluence page.					
			Target Completion Date: 30th July					
			Thoth-10July2021.pptx					
3	Review of Model (FP) enhancement Ideas	Sridhar Rao	No progress yet. Girish: We should continue to enhance the model, and not necessarily wait for the data.					
4	Data Status		Failure Type	Data Model Status	Availability	Creation Possibility		
			Node	IN PROGRESS	NO	Difficult		
			Links	IN PROGRESS	NO	OK		
			VM	YES	YES	Difficult (Experimental WIP)		
			Container	YES	NO	Difficult (Experimental WIP)		
			Application	IN PROGRESS	YES	Difficult		
			Middleware	IN PROGRESS	NO	Difficult		

5	Volunteers - AlgoSelector	Work was described on 19th July. Links are also project.						
		General Strategy Convert your questions to users in MCQ - Yes/No, multiple-choices, Scale.						
		Web-Based application implementation						
		Step-1: Separate graphs for each of the category. Start with MIT Graph and enhance it based on other references.						
		Name	ML C	ategory				
		Jahanvi	Superv	rised				
		Akanksha Unsupervised						
		Kanak Raj	Kanak Raj Reinforced					
		Step-2: Integration of these three Step-3: Implementation platform/approach survey. Software architecture to use to implement (Ex: Python module 'abc' or dynamic forms, chat-bot).						
								Step-4: Implement the graph
		Step-5: Testing/Review						
		7	Volunteers - ML Problem	Relatively easier problems to obtain data.				
	Important: Volunteer should be interested in 'Publications'							
	Step1: Enhance the survey with "Gap Analysis"							
	Name		ML P	roblem				
			Trend and Pattern Analysis					
			Anoma	ly Detection				
			Correlation Analysis					
	Step2: Ideas to fill the gap.							
8	TVLV-Tool for	Step3: Enhance the existing implementation Work is progressing well. Next week Demo of Stage-1						
0	FailureGen - Project Update	Work is progressing well, Next week, Demo of Stage-1. Student: Shubhank Saxena						
9	Other Open problems (looking for contributors)	Project		Duration	Summary			
		Model based, Multi-Source Data Extraction		1 Month	Given a data model, the tool should extract the required data from multiple sources (Prometheus, Influxdb, Filesystem, etc).			
		Data Anonymizer		1 Month	This can be part of the previous tool, or can be developed independently.			
					Given the format of the data-source, and columns to exclude, the tools should create a copy of the data without those columns.			
		Synthetic Data Generator		1 Month	Simulate infrastructure metrics.			
					Emulate Collectd-Data.			
		Chaos-Tools and Data-Generation		1 Month	Given data-models, Identify which of the chaos tools can be reused to emulate the data.			
					This applies only to Kubernetes.			
10	Jumphost Re-Install Status	WIP. Target Date: 25th July.	WIP. Target Date: 25th July.					