WEEKLY REPORT

Group No : 6

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• What have I accomplished since the last Daily Standup?

Since the last Daily Stand-up I exported the metrics like Network bandwidth consumed(in bytes), CPU core usage, Physical and virtual memory usage from Prometheus to a csv file. For doing so I build a python utility which would fetch data at every 15 secs interval and then convert it to a csv format. After doing so, I used a Random Forest Classifier which I trained over the data that I extracted and tested over it too. There are a few changes that need to be done. Firstly, deciding on the ML model which has to be used. Second gathering data over a longer time frame so that there is no overfitting in the model.

• What will I accomplish until the next Daily Standup?

Until the next stand-up I will work on gathering more data from the exporter and try to choose the right ML model that will be used to make a prediction on the data. Then I will try to fine tune the model to ramp up it's accuracy. If time permits, I would also look into drawing some kind of comparison between two ML models and figure out the one which would be suited the best for our use case. Besides this I will also create a technical design layout of our system with specifications and the tools used that can be documented in the paper.

• Do I anticipate any obstacles and can the team help me with them

Not many that I can foresee right now. The ML model selection is something I will discuss with the team once I have figured out and read about a few more techniques that can be suitable for us. If I feel stuck anywhere or need an opinion from my team members, I will connect with them over a short call.