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Deep Learning

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Project:

I plan to do a time series prediction on the dataset Yogesh provided me from his FECBench work. It has various parameters about an application which includes the latency, throughput, total duration. I plan to predict the latency of a specific application given the relevant parameters.

Status:

So far I have gotten the data and loaded it in. There are 6 different files that Yogesh has supplied me and they all have between 260-370 rows of information. I have also looked at several papers that discuss time series prediction and LSTM. I have also looked at the code provided on brightspace.

Issues:

Some issues I could see arising are how to use all 6 of the files to train, whether I should concatenate them together, feed them in one after the other or if there is a recommended way to train an LSTM network with multiple datasets?

Next would be the fact that the amount of data is small. I know this can be an issue when training so I was wondering if you had any suggestions about how to remediate this?

Lastly, I've had some permission issues with installing tensorflow, numpy, etc. on ACCRE. Do I need to setup my own virtual environment to install packages like that? Or is this something I should contact the ACCRE staff about?