Dear Concerned,

Data-driven decisions are the best course of action for any business, that's why Data Science is used today in almost every industry which is flourishing today. So knowing Data Science is an imperative tool for this day and age. However, there's one more discipline on the rise, which is Process Mining. Although it is similar to Data Science, it is more related to time data, data which have timestamps of occurrence of those events. And I have placed my focus on this kind of data because you can discover various processes happening in different industries. Once you discover the model, you can enhance them find about what are the bottlenecks and you can also check how much these processes are complying to your companies flow of work.

Process mining is a multifacet domain and each new part is a piece of the puzzle to see the full picture. First, we analyze logs and make a model - Process Discovery, then we check how good this model is, how our logs are conforming to this model - Conformance checking, and then we ask whether we can predict the outcome of the cases - Process Enhancement. Performing all of these parts have their special motivation, for example, to understand the underlying process, or to know how the performance can be improved. On first look, you might think that if it is the same in each case then where's the room for improvement. But when you see the logs you'll know that sometimes you need to adjust/innovate algorithms to handle the quirks of each process. And then there's the branch of prediction of the outcomes of the current cases, as soon as prediction comes in the picture all the conventional knowledge of data science and machine learning can be applied there.

Last semester I finished courses on Data Science and Machine Learning, and I am ready to apply my knowledge in the process mining field. I have experience with python language which is we know the language to do Data Science or Machine learning-related research. In this semester I have taken Advance Process Mining and Process Discovery Lab to enhance my knowledge in this area. You can find FuzzyMiner project on my GitHub account which we developed in the lab. Unfortunately, my score in Business Process Intelligence is not good, as I was unable to attend the courses because of another class happening at the same time. Other than that, I am trying to achieve good grades in this area so that one day I could join the company focussed on process mining. Because I think this area has huge potential and value. I almost felt like why everyone hasn't picked up on this idea when I first heard about Process Mining, but later I found out yes there are companies investing in this field like Deloitte, Celonis etc. Most likely I would be doing my master's thesis also in this domain so that I could have more in-depth knowledge.

Focussing on Study is not always easy when you need to take care of the finances on your own. That's why I would highly appreciate this scholarship.

Warm regards,
Praveen
M.Sc. Student
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