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Advanced Machine Learning Lab Day

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September 11, 2016

Problem Description-Developing robust patient adherence models and frameworks

- In health care industry non-compliance with medication regimens is a huge problem with socio-economic consequences. Due to non-adherence, pharmacy retailers lose money. More importantly, people get sick and there is healthcare expense. Patients who are on chronic diseases are expected to take their drugs periodically but they do not always follow the prescribed medication as directed. An easy way to measure this is whether they are buying the medicines at the supposed intervals..

- A leading largest pharmacy retailer has collected huge data of patient transactions (fills of their medicines at each month).To improve the medication adherence, the client believes that engaging patients is one of the best ways the client plans to proactively target those members who are at risk. The client needs a model that can account for the risk of non-adherence per patient and predict if the patient is likely to non-adhere.

What is expected

- Form into groups of 4 members.

- For the first 15-20 minutes, focus on understanding the problem, possible attributes that may be required etc

- Given the data, observe and understand the data

- Define the error metric

- Design an approach to solve this problem

- Develop the code

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