

CSEP 590B, Homework 3, Due April 27, 6:30 PM

The business model for Nexleaf analytics is to develop remote monitoring technologies for domains where value can be extracted from the data. Their main product is ColdTrace for remote monitoring of vaccine refrigerators, and they have also developed a product around measuring the performance of cook-stoves, and are now starting to look at Neonatal care.

This assignment is to identify a new domain for remote monitoring and develop a business case as to how value can be extracted from the data.

Identify a domain where remote monitoring can be used to collect actionable information (this can be either immediate action, or delayed action, or action based on inference). The domain you select should be relevant to challenges faced in developing environments, and should also be one where data can be collected remotely. Develop a plan on how the data can be used and suggest funding models to support the product. While you should consider the technological approaches on collecting the data, the main focus of this assignment is on how the data will be used. (You can assume that you have access to engineering talent who can build what you need.)

You are encouraged to identify your own domain, but if you are stuck, three plausible areas are bore wells, cotton pests, and diagnostic equipment for tuberculosis. Outline how remote monitoring would work in the domain and identify multiple pathways on how the data could be use. Assess who would benefit from the use of the data, and suggest various models on how the product could be made financially sustainable. You may consider national governments or donor organizations as potential partners, in which case you should describe how the data could be made useful in different ways through these partnerships. You should develop a recommendation on whether or not this is an appropriate domain for remote monitoring and what the most promising opportunities are.

It is acceptable to come up with a negative result for this assignment – you should pick a domain where remote monitoring is plausible, but if it turns out that after more investigation you believe that remote monitoring is not going to be useful in your domain, you should explain why in your write up. (Understanding what not to do is also of value to companies!)

Submit a PDF write up by email to Naveena before 6:30 PM, Monday, April 27.

Your write up / answers should be about 2000 words or four pages.