

## Lab Section 10 -

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Problem Statement: Nurses are overworked, as simple as that. Not only is there a lot of planning going into nursing, but there is also a lot of non-nursing-related work they have to do. Nurses feel severe burnout, in fact, 94% of nurses reported some sort of burnout in Canada, as well as these other [unfortunate statistics](#), by the Canadian Federation of Nurses Union.

Our proposed solution is to do a lot of the planning out for them. [The following dataset](#) allows us to take real non-medical, but administrative data, such as Hospital Semantics, Available Rooms, type and severity of sickness. This means we can significantly help nurses out with our model, by not only simplifying the data of (incoming) patients, into easier to read paragraphs, but we also can make an application to automatically plan future patients, prioritize specific patients, and help them out in various ways.

It starts with a basic predictive model, which can predict various important pieces of information (such as the Length of Stay, or Bed Fillings), by looking at various other features. This can then be used to help the nurses plan, and prioritize tasks accordingly.