Deployment

The data science application can be used by different types of people in the organization

After evaluation model is deployed.

It can be deployed for a specific group of people or in a test env.

Case study:

Assimilate the knowledge of business for the business group to manage intevention program to reduce readmission risk

In this scenario, the business people translated the model results so that the clinical staff can easily identify the readmission risk and design a suitable intervension action

App Requirements

They wanted a realtime application that performs assessments of CHF inpatients.

Easy to use

Automated data preparation and scoring

Up-todate risk assessment to help clinicians target hig-risk patients.

Additional Requirements

Training for clinical staff

Tracking / monitoring processes.

Feedback

Once the model is deployed, the feedback has to be collected.

Incorporating feedback into the model as adjustment helps to improve the model.

The stages are cyclic.

Statges for feedback process:

Define review process

* To measure results of applyingthe risk model to the CHF patient population. Clinical management will have overall responsibility on the review process.
* Track patients who received intervention
  + Then real re-admission outcomes will be recorded.
* Measure effectiveness of intervension
  + Compare readmission rates before and after model implementaion.

Refinement:

Refine Model

Initial review after 1st year of implementation.

Based on feedback data and knowledge gained perform refinement.

Participation in intervention program.

Possibly incorporate detailed pharmaceutical data originally deferred.

Other possible refinements as yet unknown.

Review and refine the intervention actions.

Redeploy and redo.

Story Telling

essential skillset

Super critical to story telling with data

Important to tell clear,concise , and compelling story to convince people to take action.

Also helps data scientists understand the data better.

Find a balance between telling simple story and conveying complexities of the data.

Ifyou cannot communicate your finding to your audience the inforamation no matter how good it is, it is useless.

best in visuals

gives emotional connection instead of bunch of stats.

Course Summary:









