

**LKS-CHART DATA SCIENTIST INTERVIEW  
APRIL 2018****DETAILS**

**Date**  
**Location**  
**Name of Interviewee**  
**Interviewers**

**SCHEDULE**

<b>Time</b>	<b>Location</b>	<b>Interviewers</b>	<b>Description</b>
(1 hour)		All	Panel Interview: General and Case-Based
(15 minutes)		None	Jung Test

**SUGGESTED INTERVIEW QUESTIONS**

Welcome candidate and provide a brief overview of the LKS-CHART (5 minutes).

General Questions (30 minutes)

1. What makes you a good fit for this position? Tell us about yourself, your background, and the type of position you're ideally looking for.
  
  
  
  
  
  
  
  
  
  
2. If I were to ask your friends and family, what would they say are your greatest strengths and challenges?
  
  
  
  
  
  
  
  
  
  
3. What sorts of things do you look for in an ideal work environment?

4. What are the most important things a data scientist should be able to do?
  
  
  
  
  
  
  
  
  
  
5. Tell us about your experience with working with data, particularly natural language and time series data. What sorts of datasets have you worked with? If you've worked with health data in past, please focus on those experiences.
  
  
  
  
  
  
  
  
  
  
6. Tell us about the most challenging 'data problem' you've had to deal with and how you solved it. If possible, identify two problems: 1) one problem related to managing digital text data and 2) another problem related to analyzing that data.
  
  
  
  
  
  
  
  
  
  
7. When presenting data to different audiences (e.g. clinicians, statisticians, management), what sorts of things do you consider with respect to data communication / presentation formats?
  
  
  
  
  
  
  
  
  
  
8. What are your career aspirations? Where do you see yourself in the next 5 years?

Case-Based Questions (15 minutes)

Case: we would like to predict adverse patient outcomes (e.g., death or transfer to the ICU). We have about 7 years of data on all St. Mike's patients in the Enterprise Data Warehouse (EDW). Examples of data that is recorded include vital statistics measurements (with a timestamp), consult notes (stored as text), and lab results.

Questions:

How would you approach the problem of predicting adverse patient outcomes?

Follow up: Do you anticipate any problems with the approach?

Follow up: One problem that you might encounter is overfitting. What are some ways in which you could address this problem?

Wrap-Up (10 minutes)

Do you have any questions for us?

**St. Michael's**

Inspired Care.  
Inspiring Science.

Li Ka Shing Centre for Healthcare  
Analytics Research and Training

**INTERVIEWER NOTES**

## INTERVIEWER RANKING

Please rank candidates on a 5 point scale:

- 1 – very poor
- 2 – poor
- 3 – adequate
- 4 – good
- 5 - exceptional

**Communication**

Ranking: \_\_\_\_\_

How well does the candidate communicate?

**Problem Solving**

Ranking: \_\_\_\_\_

How well did the candidate analyze and respond to the challenges/questions posed to them?

**Technical**

Ranking: \_\_\_\_\_

Is the candidate knowledgeable in data management and analysis? Does the candidate have a moderate understanding of data analysis as it relates to natural language processing?

**Interpersonal**

Ranking: \_\_\_\_\_

How well did the candidate interact with the interviewers (e.g. body language, tone of voice, gestures)? Is this candidate someone you would want to work with?

**Total Score**

\_\_\_\_\_ **20**