

Habib University  
CS-113 Discrete Mathematics  
Late Spring 2018  
HW 7

*< your – id >*

Due: Whenever you want

1. In the DM Final Exam, some students were mistakenly allowed to went out of the exam hall for washroom. Dr. Waqar Saleem has realized this mistake and now wants your help to find out from all those who went out, which ones really cheated. Now, Waqar has given you a hint: the cheaters used their phones! Use neural networks and unsupervised learning with regression algorithm to find out students who cheated based on their facebook and whatsapp profiles along with the search history that you extracted after hacking their phones.

**Solution:**

2. Question 2

**Solution:**

3. Question 3

**Solution:**

4. Question 4

**Solution:**

5. Question 5

**Solution:**