

Observation of Human Behaviour

Case Study of IISER-K Campus

LS2203 Lab Report



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1 Introduction

1.1 Aim

- To apply behavioral observation techniques to understand human behaviour among the individuals in the IISER Kolkata Campus, by analysing the activities at a public entrance of a building.
- To study the particular behaviour of ‘showing courtesy’ by holding the door open for another person while entering or exiting.

1.2 Theory

Humans possess a demonstrated ability to express themselves through their physical behaviours which reflects their psychological and social aspects, in response to stimuli originating from within or outside themselves over the course of their lives.

The interplay of genetic and environmental factors significantly influences the patterns of behavior exhibited by each individual. Human behaviour is intricately complex and ascertaining a general trend in the behaviour is often a gruelling task, prone to misinterpretation.

In this report we try to analyse human behaviour around an entrance of a building, focusing primarily on the very fundamental, primitive behaviour of showing courtesy to fellow humans by holding the door open for them to enter.

1.3 Methods

1.3.1 Choice of Entrance



The entrance to the **Research Complex (RC Building)** was chosen to be our ‘place of interest’ around which the behaviours were observed. It is a sufficiently crowded entrance located in a public space and is equipped with a functioning door, hence it satisfies the criteria for the choice of entrance.

1.3.2 Measuring Traffic around the Entrance

The scan samples were taken over a period of four days. Each day was divided into 4 periods viz. Morning, Afternoon, Evening, Night and each scan was taken during a 10 minute interval in each period of the day.

During this 10 minute interval, we randomly chose five 1 minute intervals in which we performed the scans at and around the entrance to observe the activity of the people present.

We focused on the people entering/exiting the door and people who are around the entrance but not actively performing any task. We noted the data as observed and later analysed the data to perform quantitative analysis of the activity.

The days chosen for scan samples to be taken were :

1. 29th February (Thursday)
2. 2nd March (Sunday)
3. 5th March (Tuesday)
4. 6th March (Wednesday)

1.3.3 Display of Courteous Behaviour

For the entire period of 10 minutes during a particular inspection period, we noticed for any behaviour of courtesy, that is, one person holding a door for someone coming behind.

We noted the gender of the person who is holding the door open and for whom the door has been held.

We also noted any particular subtlety like whether an individual carrying a load or a professor was preferred to be shown courtesy more.

We later used these data to quantitatively estimate the courteous behaviour of individuals in the IISER Kolkata Campus.

2 Observations

2.1 Measurement of Traffic using Scan Sampling

The following scan samples have been taken over 4 days at different periods of the day.

Scan 1: 29th February, Thursday

Time	Interval	Gender	Behaviour	Status	
Morning (8:00-8:10 am)	8:02-8:03	-	No activity	-	
	8:05-8:06	F	Exiting, carrying a thermocol box Opened the door herself	Active	
		F	Exiting along with the above individual	Active	
		F	Exiting along with the above individual	Active	
		M	Exiting	Active	
		M	Entering, talking on mobile phone	Active	
	8:08-8:07	-	No activity	-	
	8:09-8:10	M	Entering, bluetooth speaker in ear	Active	
Afternoon (12:30-12:40 pm)	12:30-12:31	M	Sitting on slab, browsing phone	Inactive	
		M	Standing, talking on phone	Inactive	
		M	Enter	Active	
		F	Exit	Active	
		M	Exiting, had many copies in his hands	Active	
		M	Exit	Active	
		F	Enter	Active	
		F	Exit	Active	
		F	Exit	Active	
	12:31-12:32	F	Enter	Active	
		M	Out	Active	
		M	Enter, same individual inactive in previous scan	Active	
		F	Enters, opens doors for 2 people mentioned below	Active	
		M	Enter	Active	
		M	Enter	Active	
		M	opens door for Prof.	Active	
12:33-12:34		M (Prof.)	enters	Active	
		M	enter	Active	
		M	out	Active	
		M (Prof.)	out	Active	
		M (Prof.)	out, stands near entrance for a bit	Inactive	
12:36-12:37		M	Exit, stands holding the door open for sometime without any reason, talking on phone	Active	
		M	Sitting on slab, headphones in ear	Inactive	
		M (Prof.)	out, talks with another Prof.	Active	
12:39-12:40		M	Enter	Active	
		M	Out, starts talking on phone	Active	

2 Observations

Time	Interval	Gender	Behaviour	Status
Evening (6:30- 6:40 pm)	6:31-6:32	F	Sitting on slab, Talking on phone	Inactive
		F	Exiting	Active
		F	Entering	Active
		F	in a 3 people group, Enter	Active
		M	3 people group, started talking on phone	Inactive
		M	3 people group, Went away later	Inactive
		F	Entered, held door for individual below	Active
		F	Entered	Active
	6:33-6:34	M	Entered	Active
		F (Prof.)	Entered, opened door for individual below	Active
Night (10:56- 11:06pm)	6:34-6:35	M (Prof.)	Entered	Active
		M	Exit, held door for individual below	Active
		F	Exit	Active
		F	Entered with the individual below, did not hold door for latter	Active
		F	Entered	Active
	6:37-6:38	-	No activity	-
	6:38-6:39	M	Exiting	Active

Time	Interval	Gender	Behaviour	Status
Night (10:56- 11:06pm)	10:56 -10:57	M	Talking on phone outside	Inactive
		M	Exit, opened door for person below	Active
		F	Exit	Active
		M	Exit	Active
		M	Enter	Active
		M	Enter	Active
Night (10:56- 11:06pm)	10:58- 10:59	M	Enter with three people below	Active
		M	Enter	Active
		M	Enter, hold door for others	Active
		M	Enter	Active
		M	Enter	Active
Night (10:56- 11:06pm)	11:00 -11:01	M	Exit	Active
	11:02- 11:03	-	No activity	-
	11:04 -11:05	M	Standing, talking on phone	Inactive
		M	Enter, kept door open for 2 people below	Active
		M	Enter	Active
		F	Enter	Active

2 Observations

Scan 2: 2nd March, Saturday

Time	Interval	Gender	Behaviour	Status
Morning (8:59-9:09)	8:59-9:00	M	Enter	Active
		M	Exit	Active
	9:02-9:03	M	Exit	Active
		M	Enter	Active
	9:05-9:06	M	Sitting on slab	Inactive
		M	Enter, held for below	Active
		M	Exit	Active
	9:07-9:08	F	Standing, seeing phone	Inactive
		M	Enter	Active
	9:08-9:09	M	Exit	Active
		M	Exit	Active

2 Observations

Time	Interval	Gender	Behaviour	Status
Afternoon (2:01- 2:11 pm)	2:01- 2:02	M	Enter	Active
		M	Enter	Active
	2:05 -2:06	M	Exit, with 3 below	Active
		M	Exit, held door open for 2 person below	Active
		F	Exit	Active
		F	Exit	Active
		M	Exit, held open for below	Active
		M	Standing and checking phone	Inactive
		M	Exit	Active
		F	Talking on phone	Inactive
	2:06- 2:07	M	Exit, held door open for below	Active
		F	Exit	Active
		M	Exit	Active
		F	Enter	Active
	2:08- 2:09	M	Exit	Active
		F	Standing, feeding dog	Inactive
		M	Enter	Active
		M	Enter	Active
		M	Exit	Active
	2:10 -2:11	M	Exit, opened door for below	Active
		M	Exit	Active
		M	Exit, opened door for below 2	Active
		M	Exit	Active
		F	Exit	Active
		F	Standing, talking on phone	Inactive
		M	Exit	Active
		F	Enter	Active
		F	Enter, opened door for below	Active
		M	Enter	Active

2 Observations

Time	Interval	Gender	Behaviour	Status
Evening (8:00-8:10)	8:03-8:04	M	Enter	Active
		M	Exit	Active
	8:04-8:05	F	Exit	Active
		F	Exit, opened door for below	Active
		F	Exit	Active
		M	Enter	Active
		M	Exit	Active
	8:06-8:07	M	Exit, opened door for below	Active
		M	Exit	Active
		M	Exit	Active
		F	Enter	Active
	8:07-8:08	M	Enter, opened door for below	Active
		M	Enter	Active
	8:08-8:09	M	Enter	Active
		M	Enter	Active

Time	Interval	Gender	Behaviour	Status
Night (11-20 -11:30 pm)	11:20-11:21	-	No activity	-
	11:22-11:23	-	No activity	-
	11:24-11:25	F	Enter, kept door for person below	Active
		M	Enter	Active
	11:26-11:27	M	Enter	Active
		M	Enter	Active
	11:28-11:29	M	Enter	Active

Scan 3: 5th March, Wednesday

Time	Interval	Gender	Behaviour	Status
Morning (7:56-8:04am)	7:54-7:55	M	Came on scooter and enter	Active
		M	Exit	Active
	7:56-7:57	M	Exit	Active
		M	Exit, hold door for below	Active
		M	Exit	Active
	7:57-7:58	-	No activity	-
	7:59-8:00	-	No activity	-
	8:01-8:02	-	No activity	-

2 Observations

Time	Interval	Gender	Behaviour	Status
Afternoon (12:40- 12:50 pm)	12:41- 12:42	M	Exit	Active
		M	Sorting delivery	Inactive
		M	Sorting delivery	Inactive
		M	Sorting delivery	Inactive
		M	Sorting delivery	Inactive
		M	Talking on phone	Inactive
		M	Enter, held door for person below	Active
		M	Enter	Active
	12:43- 12:44	F	Enter	Active
		M	Entered, carrying some boxes	Active
		M	Talks to delivery man	Inactive
	12:45- 12:46	M	Sitting	Inactive
		M	Exit, kept door open for person below	Active
		M	Exit with a trolley	Active
		M	Exit	Active
		M (Prof.)	Exit	Active
	12:47- 12:48	M	Exit	Active
		M	Enter	Active
		M	Kept door open for trolley to come in	Active
		M	Kept door open for trolley to come in	Active
		M (Security)	Closed the door	Active
	12:49- 12:50	F	Exit	Active
		M	Exit	Active
		F	Talking with 2 person below	Inactive
		M	Talking	Inactive
		M	Talking	Inactive
		M	Exit. kept door open for below	Active
		M	Exit	Active
		M	Enter, kept door open for below	Active
		M	Enter, carrying a luggage	Active
		M	Enter	Active
		M	Enter	Active

2 Observations

Time	Interval	Gender	Behaviour	Status
Evening (6:30-6:40 pm)	6:30-6:31	M	Enter, holds door for below	Active
		M	Enters	Active
		F	Enters	Active
		F	Standing near entrance	Inactive
		M (Prof.)	Exits, walks slowly then stands and observes	Active
		F	Almost entered but then started looking at phone standing	Inactive
	6:31-6:32	M (Prof.)	Comes near and talks with another Prof.	Inactive
		F (Prof.)	Comes with above and talks with same Prof.	Inactive
		M (Prof.)	Exit	Active
		F	Enter	Active
	6:34-6:35	M (Prof.)	Exit, talks with the prof.	Active
		F (Prof.)	Exit, talks with the prof.	Active
		F	Exits with above	Active
		M	Enter with food in hand	Active
	6:36-6:37	M (Prof.)	Talks on phone	Inactive
		M	Enter	Active
		M	Exit, holds door for friend below carrying a big bag	Active
		M	Exit	Active
		F	Exit while individual above was holding door	Active
	6:38-6:39	M	Enter, holds door for below	Inactive
		M	Sitting on slab	Inactive
		F (Prof.)	Exit	Active
		M	Exit, eating something	Active
		M	Enter	Active
		M	Exit	Active
		M	Enter, holds door for male above and greets him	Active
		M	Enter, greets above man	Active

Time	Interval	Gender	Behaviour	Status
Night (12:30 -12:40 am)	-	-	No activity	-

2 Observations

Scan 4: 6th March, Wednesday

Time	Interval	Gender	Behaviour	Status
Morning (7:55-8:05 am)	7:55-7:56	-	No activity	-
	7:57-7:58	M	Alighted from cycle in front of entrance but went away	Active
	7:58-7:59	-	No activity	-
	8:01-8:02	F	Entered, came out after a while with a big white packet	Active
	8:04-8:05	-	No activity	-

2 Observations

Time	Interval	Gender	Behaviour	Status
Afternoon (1:47-1:57 pm)	1:47-1:48	M	Enters, holds for three people below	Active
		M	Enter	Active
		M	Enter	Active
		M	Enter	Active
		M	Enter, holds for below	Active
		M	Enter	Active
		F	Exit drinking coffee	Active
		M (Prof.)	Exit and sat on slab	Active
		M	Sitting on slab	Inactive
		M	Sitting on slab, checking phone	Inactive
		F	Standing and talking	Inactive
		M	Standing and talking	Inactive
		M	Checking items in truck	Inactive
	1:48-1:49	M	Exit	Active
		M	Exit	Active
		M	Came near entrance and stood to check the truck items	Inactive
	1:49-1:50	M	Enter	Active
		M	Exit, eating a sandwich and juice	Active
		F	Enters, holds door a bit	Active
		F	Enters	Active
		F	Started to hold door for below individual after the individual above left the door	Active
		F	Enters	Active
	1:51-1:52	M (Prof.)	Enters, holds door for below individual	Active
		F (Prof.)	Enters	Active
		M (Prof.)	Enters	Active
		M (Director)	Enters, door held by security	Active
		M(Prof)	Enters along Director	Active
		F	Exit	Active
	1:55-1:56	M (Director)	Exit	Active
		M	Enter	Active
		M	Exit	Active
		F	Exit, holds door for below	Active
		F	Exit	Active
		M	Enter	Active
		M	Enter	Active
		M	Enter, holds for below individual	Active
		F	Enter	Active

2 Observations

Time	Interval	Gender	Behaviour	Status
Afternoon (1:47-1:57 pm)	1:55-1:56	F	Came near, started talking with truck people	Inactive
		F	Came near, started talking with truck people	Inactive
		M	Enters, holds door	Active
		M	Enter	Active
		M	Enter	Active
		M	Enter, holds door	Active
		F	Enter, holds door for below	Active
		M	Enters	Active

Time	Interval	Gender	Behaviour	Status
Evening (6:31-6:41pm)	6:31-6:32	F	Enter, holds door for a bit for 3 below, then releases	Active
		F	Enter	Active
		M	Enter	Active
		M	Enter	Active
		M	Enter	Active
		M	Enter	Active
		M	Enter	Active
		M	Exit	Active
		M	Exit	Active
		F	Exit, starts talking on phone	Active
		F	Exit, holds door for below	Active
		F	Exit	Active
		F	Talking on phone	Inactive
	6:34-6:35	F	Enter	Active
		F	Exits, holds door for above person	Active
		M	Exit	Active
		M	Enter	Active
		F	Exit	Active
	6:35-6:36	F	Enter, holds door for below two	Active
		F	Enter	Active
		F	Exits	Active
	6:37-6:38	M	Enters taking a bunch of mud, a dog follows him to gate	Active
		F	Exit, holds door for above	Active
		M	Enter	Active
		M	Enter	Active
		M	Talking on phone, sits on slab, had big bag in hand	Inactive

2 Observations

Time	Interval	Gender	Behaviour	Status
Night (9:45-9:55)	9:45-9:46	M	Enter, held door for below	Active
		M	Enter	Active
		M	Enter	Active
	9:47-9:48	M	Exit	Active
		F	Exit, drinking coffee	Active
		F	Standing, talking on phone	Inactive
		M	Standing	Inactive
		M	Enter	Active
		F	Exit	Active
	9:48-9:49	F	Enter, opened door for below	Active
		F	Enter	Active
	9:52-9:43	F	Exit	Inactive
		M	Enter	Active
		M	Standing	Inactive
	9:54-9:55	F	Exit	Active
		M	Enter	Active

Further analysis has been done in section [Activity](#)

2.2 Display of ‘Courteous Behaviour’ using Focal Sampling

We now analyse the display of courteous behaviour, that is, holding the door open for someone coming behind.

We use the notation $M \rightarrow F$ to denote that a male had opened for a female and $F \rightarrow M$ to denote that a female has opened for a male.

The following are the data obtained from the focal scan:

Courteous Behaviour					
Day	Morning				Total
	$M \rightarrow F$	$F \rightarrow M$	$F \rightarrow F$	$M \rightarrow M$	
29 th February	0	0	2	0	2
2 nd March	0	0	0	1	1
5 th March	0	0	0	1	1
6 th March	0	0	0	0	0

Courteous Behaviour					
Day	Afternoon				Total
	$M \rightarrow F$	$F \rightarrow M$	$F \rightarrow F$	$M \rightarrow M$	
29 th February	2	1	3	2	8
2 nd March	4	1	0	3	8
5 th March	2	0	0	5	7
6 th March	4	1	2	10	17

2 Observations

Day	Courteous Behaviour				Total
	M → F	F → M	F → F	M → M	
29 th February	1	1	1	0	3
2 nd March	0	0	1	2	3
5 th March	1	2	2	4	9
6 th March	0	1	5	1	7

Day	Courteous Behaviour				Total
	M → F	F → M	F → F	M → M	
29 th February	2	5	0	0	7
2 nd March	0	1	0	0	1
5 th March	0	0	0	0	0
6 th March	0	0	1	1	2

In addition to the quantitative data above, the following observations were also made:

- Most of the courteous behaviour was shown by people who knew each other and came together to the entrance as a group.
- Most of the time, if there is a group, the first person reaching the door held the door open for the others to follow.
- Courteous behaviour was also shown if the person coming behind had something in their hand so it would have been difficult for them to open the door on their own. For example, the door was kept open for the male carrying mud on 6th March evening and for the male carrying the trolley on 6th March afternoon.
- In 4-5 cases it was seen that there was an opportunity to show courtesy but the individual did not choose to keep the door open for the person coming behind that individual.
- At one time, when the Director was entering the building, the door was promptly opened by the security guard. The latter did not stand up to open the door for any other person or faculty member.

Further analysis has been done in section [Courteous Behaviour](#)

3 Results

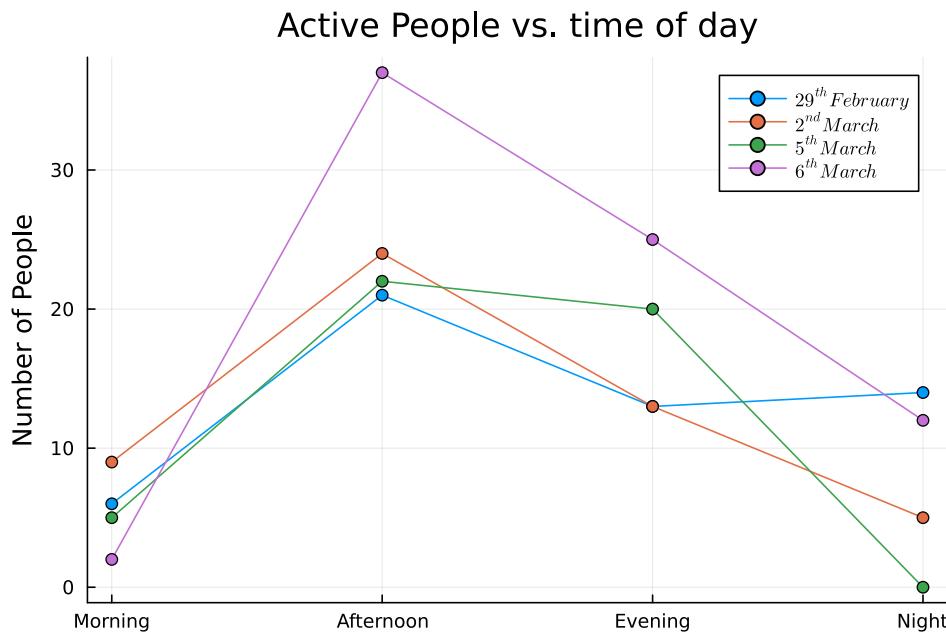
3.1 Activity

From our scan sample data, we enumerate the number of active and inactive individuals. The following tables list the data:

Number of Active People				
Day	Morning	Afternoon	Evening	Night
29 th February	6	21	13	14
2 nd March	9	24	13	5
5 th March	5	22	20	0
6 th March	2	37	25	12

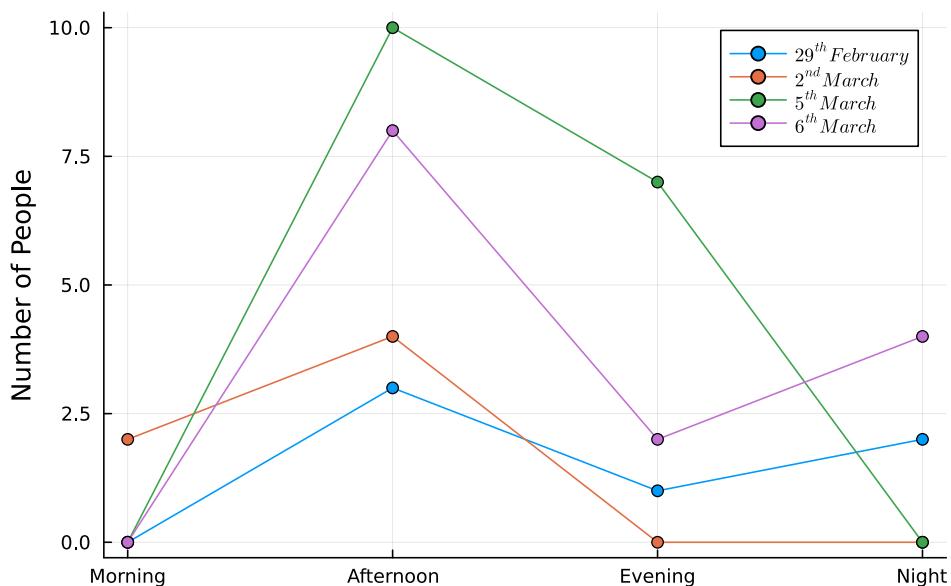
Number of Inactive People				
Day	Morning	Afternoon	Evening	Night
29 th February	0	3	1	2
2 nd March	2	4	0	0
5 th March	0	10	7	0
6 th March	0	8	2	4

From the data table above, we now plot the number of active and inactive individuals against the period of day.



3 Results

Inactive People vs. time of day

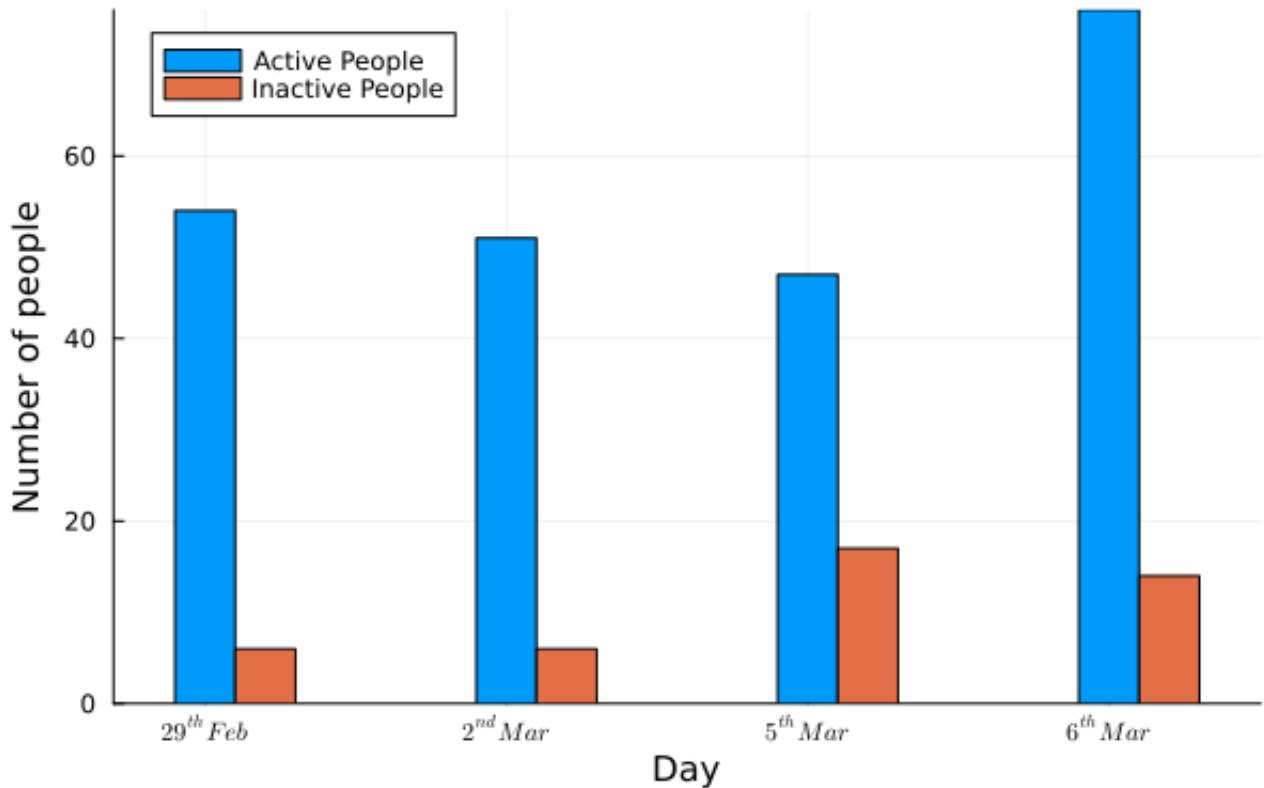


We see that compared to Morning and Night, Afternoon and Evening had more number of both active and inactive individuals. **Afternoon** had the most number of active individuals.

Moreover, the overall number of inactive individuals was much less than active ones. The most common inactive behaviour shown was either **Standing and talking with someone** or **Browsing or talking on the phone**.

We now plot the number of active people on a particular day.

Activity vs. Day



We had purposefully selected a day on the weekend to see how the traffic around the RC door changes on a weekend.

The traffic around the RC door does not show a considerable dip during the peak afternoon

3 Results

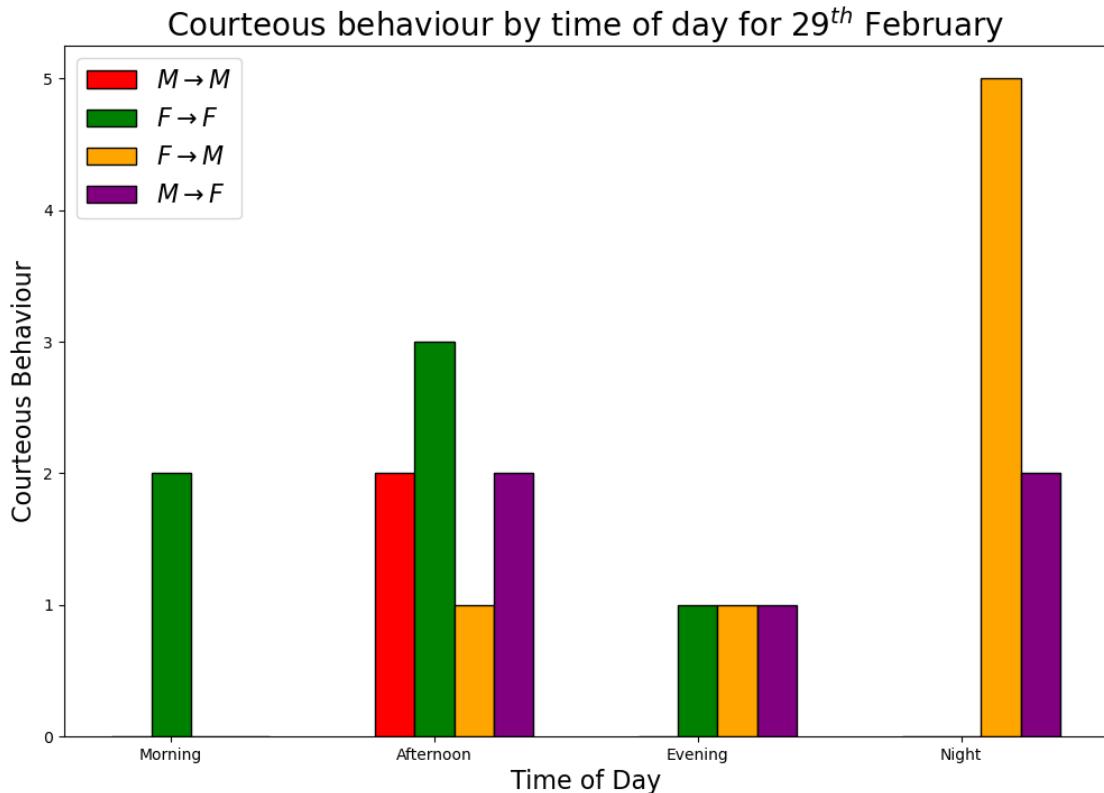
hours, which can be attributed to the fact that most of the traffic observed in the afternoon is due to the fact that scan sampling times correspond to the normal lunch hours at the mess and the food court. Thus, not having a significant dip in traffic during the afternoon samples can be justified. The traffic however did decrease during the evening and the night scan samples.

We had expected that the overall activity would be slightly less on 2nd March which was a Saturday (weekend) but the results do not show any correlation between Activity and Weekend/Weekday. Thus, our hypothesis cannot be confirmed.

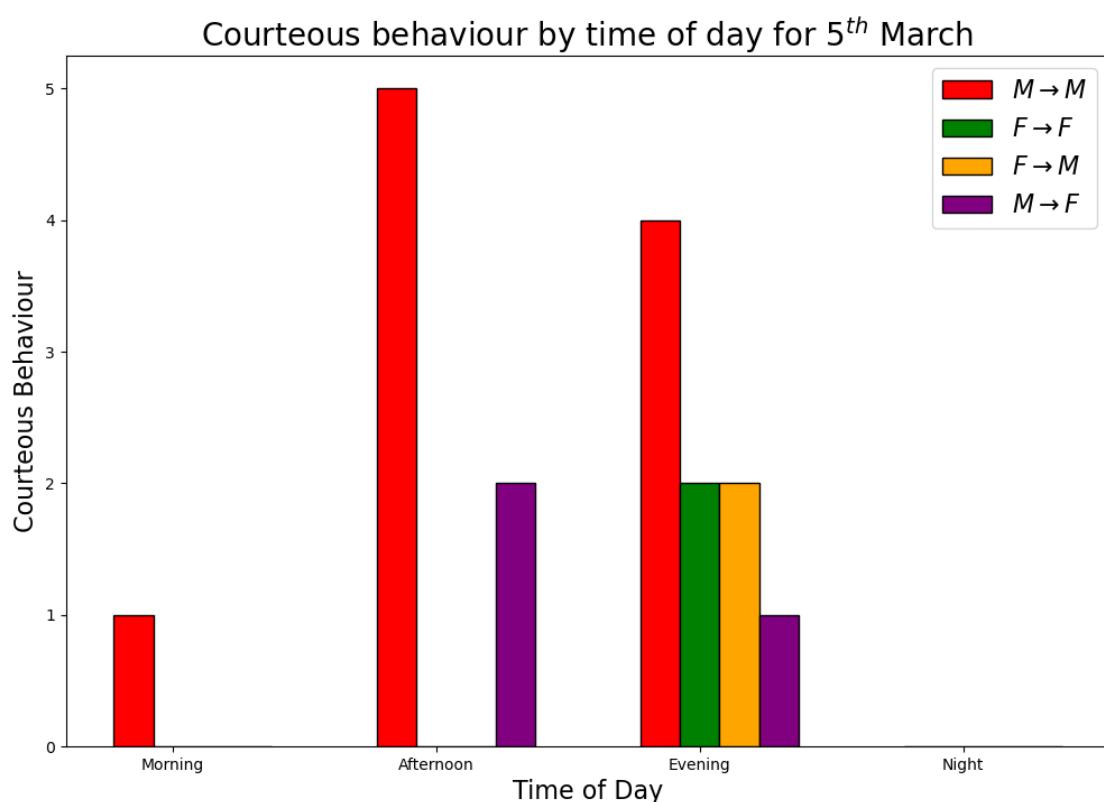
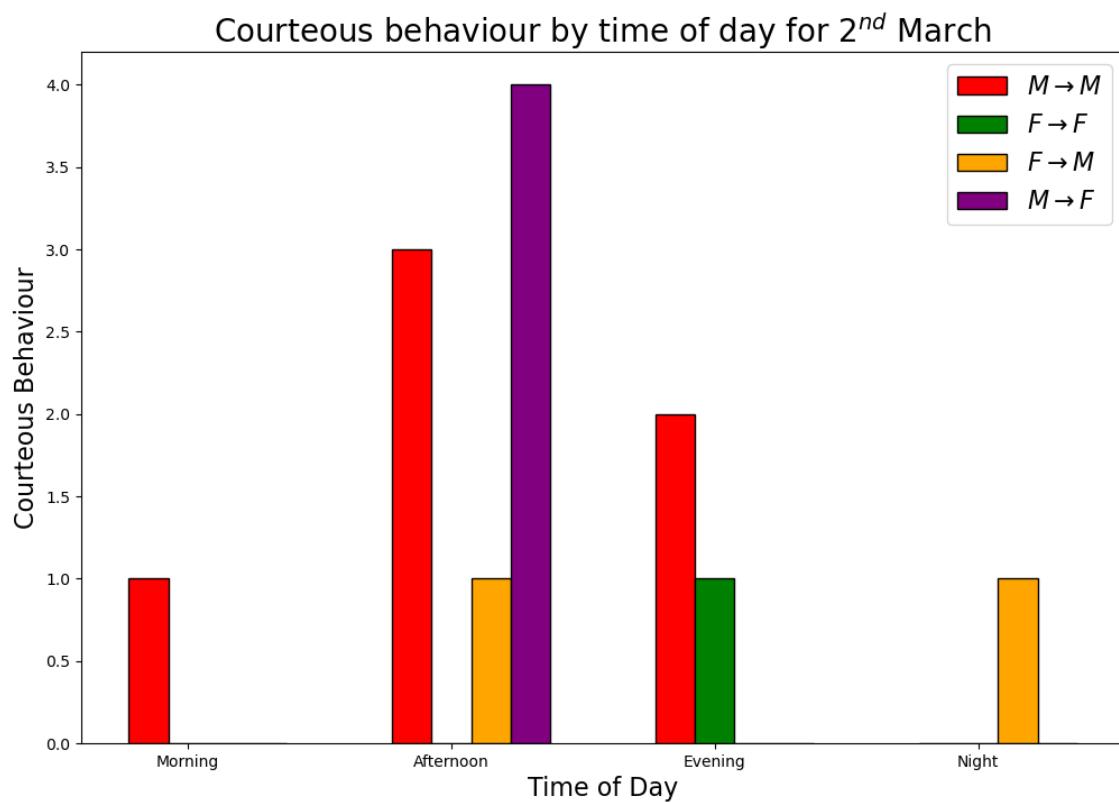
Overall we can see that the number of active individuals remained more or less same on each day of scan sampling.

3.2 Courteous Behaviour

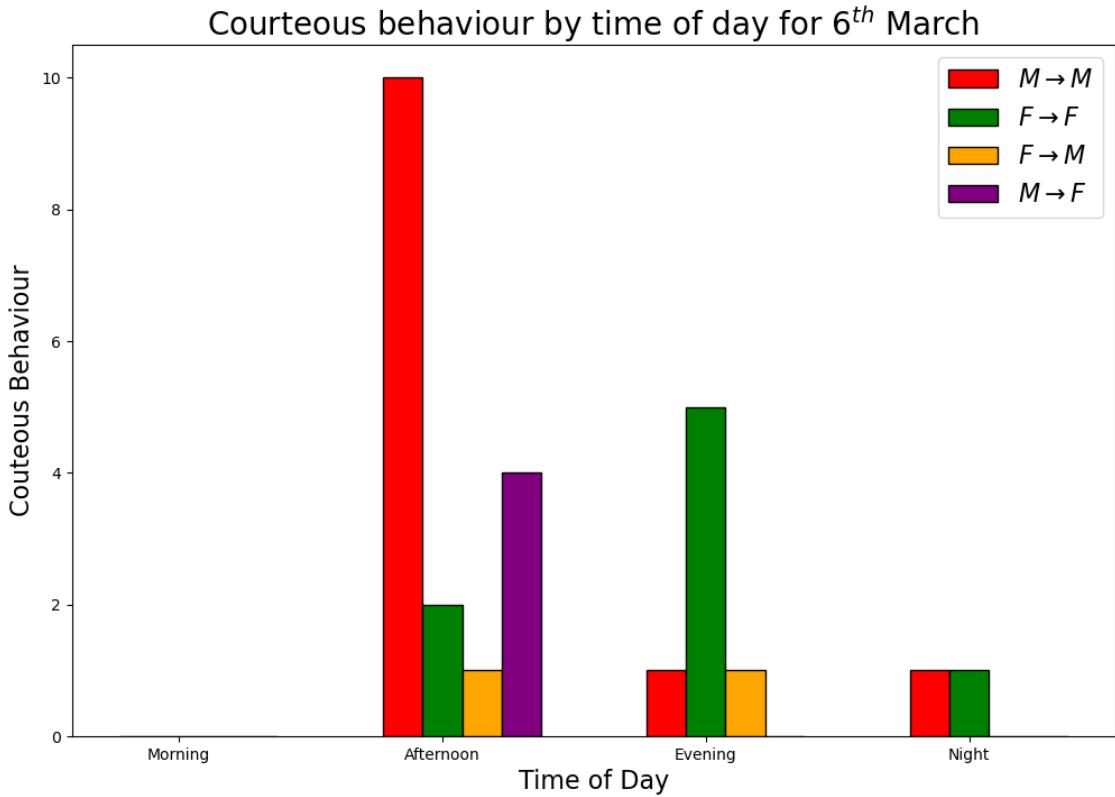
We now analyze the display of courteous behaviour. First, we observe the courtesy by time of day for the different days we have scan sampled.



3 Results



3 Results



We see that most courteous behaviour have been shown during afternoon or evening, which is justified since the overall number of individuals during that period was greater.

After the plots are done we can see that the acts of courtesy were also less during the nighttime. The raw data tables just show that a large number of individuals traveled alone through the RC door. So we can conclude, that people generally travel solo during the night (although the speculation might be erroneous).

We quantify discourteous behaviour as the behaviour if someone is immediately followed by someone else, and the former does not keep the door open for the latter. Discourteous behaviour has been exhibited very little by the individuals in our scans.

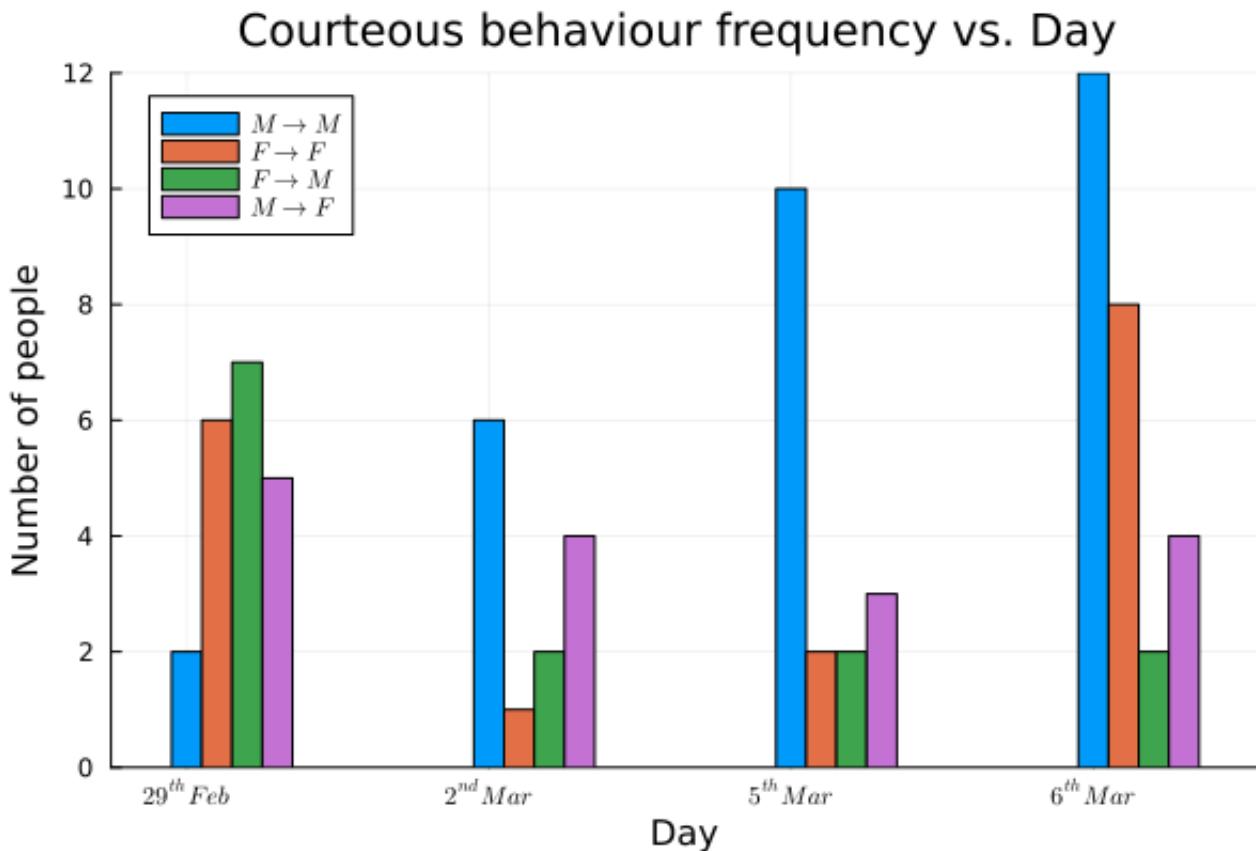
However most of the cases of courtesy have been during the afternoon, which again is justified as the number of individuals is greater in the afternoon, and if we consider the probability of any random person showing courteous to be equally likely, then the chances of at least one person showing courteous behaviour increase with the total no of individuals taken in the scan sample.

However, we rarely saw some amount of discourteous behaviour at times even when number of individuals were lesser, which is to be expected.

We now plot instances of courteous behaviour concerning a certain day. From the data in the observations, we list the number of courteous behaviour shown by different gender combinations for an entire day in the following table:

3 Results

Courteous Behaviour for entire day					
Day	$M \rightarrow F$	$F \rightarrow M$	$F \rightarrow F$	$M \rightarrow M$	Total
29 th February	5	7	6	2	20
2 nd March	4	2	1	6	13
5 th March	3	2	2	10	17
6 th March	4	2	8	12	26



From our data, we can see that the most general trend is $M \rightarrow M$, that is a male opens for another male, followed by $F \rightarrow F$ and $M \rightarrow F$. The male opening for male trend could be because our scans mostly consisted of male groups entering/exiting the door. The male opening for female could be a general trait of the gender. The least observed trend is $F \rightarrow M$.

In one case, as mentioned in the observations, when the Director was entering, the security guard at the entrance himself stood up and opened the door for the former. This behaviour was not shown for any other individual, be it any administrative staff or professor. This can be reflective of the general human behaviour of showing courtesy to individuals holding an important position.

Overall, we can say that **the individuals in the campus display significant courteous behaviour.**

3.3 Question of our own

What measurable (mostly environmental) factors does courtesy depend on?

3 Results

We can analyse on what environmental factors does courteous behaviour depend on. Here the behaviour taken into account is the behaviour of a person keeping the door open for someone coming immediately behind that person.

If the next person is immediately behind the former person, and the door is kept open, we classify that behaviour as **courteous**, otherwise the behaviour is classified as **discourteous**.

The factors that we have taken into account are as follows:

1. Time of the Day
2. Day of the week
3. Gender

Time of the day

We were trying to see if there is any correlation between the courteous behavior exhibited by individuals with time.

The only relation that can be thought of is the fact that do the number of individuals showing courtesy decrease after a certain point of time. After a day's work in the labs of the RC, people are bound to be tired.

Hence, there was a possibility that the courteousness of people might decrease as they get more tired.

However, the data does not verify this hypothesis and at the same time, the dataset is also not large enough to falsify the claim. Hence, the analysis is inconclusive.

Day of the week

The only discernible difference that can be hypothesised, is that the courteousness of individuals may or may not depend on if the day is a weekday or a weekend.

Weekend generally means that the workload of the people involved in the scan sampling have a lesser workload than on weekdays.

Courtesy may be shown more if a person has a lesser workload and is not in a rush to complete urgent business. Weekdays are generally when people have a larger amount of workload and are in a rush. Our data conclusively shows that courteousness does not depend on the day of the week.

Rather there was no explicit difference in the level of courtesy shown in data.

However the graph does show a lesser number of people showing courtesy, which is because of the fact that the scan samples we took mostly consisted of people traveling by themselves alone, rather than in groups. As a result the chance to courtesy was less, however, given the chance to show courtesy the amount of people showing courtesy, did not exhibit a large difference between the weekdays and the weekends.

Gender

We can divide this into two segments that the dependence of the exhibition of courtesy on the gender of the person exhibiting/not exhibiting courtesy and the dependence of the exhibition/non-exhibition of courtesy on the gender of the oncoming person.

The most general trend seen here is $M \rightarrow M$, that is a male opens for another male, followed by $F \rightarrow F$ and $M \rightarrow F$. The least observed trend is $F \rightarrow M$.

Our scan samples consisted mostly of men, so the general trend does follow that fact. Males however, might have an inherent gender trait of being courteous, but answering that question requires further exploration.

3 Results

Coming to the second question on the dependence on the gender of the oncoming person, it has been seen that persons generally show courtesy for the people of the same gender more. However, that observation can also be attributed to the choice of company of the individuals in the scan, that is, most groups around the entrance consisted of either all females or all males.

4 Conclusion

From our scan sampling, we can conclude:

- Most activity was observed during the **afternoon**.
- Most common inactive behaviour was **looking at or talking on the phone** or **standing and talking with someone**.
- There were in general lesser inactive people than active ones.

From our focal sampling, we can conclude:

- Mostly courtesy was shown for people in a group where the first person would often hold the door for their friends who are in the group.
- Mostly it was seen that males open for male, followed by female opening for female and males opening for females. The case of females opening the door for males was very rare.

We conclude by mentioning that from our observation of the human behaviour, we found that the individuals in the IISER Kolkata campus display a general trend of courteousness.

5 Limitations

Care was taken so that the data obtained is as accurate as possible. However, inadvertently some error might have been introduced into the data. We list few possible reasons that could have led to errors in the data.

- During some point of time, specially in the afternoon, there was a huge flux of people entering or exiting from the door. For example, if the institute bus halted at the RC Door, many people would have alighted from the bus and entered. The random movement of people was too difficult to follow and to keep note about the activity and display of courteous behaviour. Thus, there could have been counting error in that situation.
- In very few cases, it was not so easy to ascertain whether a person had showed courteous behaviour and it depended on the discretion of the observer.
- There were many people who appeared in multiple scans and hence, multiple counting of the same individual might have been done.
- The scan samples have also not been done at the exact time everyday due to various engagements of the observers. If taken at the same time, the data would have been a more accurate measure of the aspects that we were observing.
- The dataset was too small to effectively derive conclusions about the courteousness of the individuals involved in the scan samplings.

6 Contributions

- Sagnik Seth: Took half the data and completed the analysis for the lab report. Wrote most of the lab report.
- Sabarno Saha: individuals Took data and completed the inferences for different results in the dataset.
- Rishab P Hariharan: Took data and helped in answering the question we came up with.

7 Supplementary

The raw data taken has been attached to the end of the report.