

# OD Survey Summary Report

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# 1 Introduction

This is a brief report on OD survey data. The Survey involves collecting Origin-Destination travel data from travelers to identify the travel patterns in the study area and the reasons for those patterns.

In this survey, a total of 6000 samples were collected. Here is a sample of the collected OD data:

Table 1: Sample OD Data

sample_id	origin	destination	distance	time	age	purpose	occupation
1	83	16	93	4.478211	20-30	Business	Public Emp
2	47	94	446	17.033848	<20	Business	Public Emp
3	48	32	309	14.746945	20-30	Work	Public Emp
4	38	4	294	8.704360	>70	Business	Public Emp
5	75	86	414	12.080560	>70	Educational	Private Emp
6	19	86	168	5.402684	51-60	Educational	Public Emp

## 1.1 Major OD Pairs

Top two OD pairs in the study area are 19-11 and 17-40. A total of 15.83% are hapenning between 19-11 followed by 8.08% between 17-40.

Table 2: Major OD pairs of the study area

OD Pair	Trips	Percentage(%)
19-11	950	15.83
17-40	485	8.08
31-95	178	2.97
43-29	156	2.60
89-11	134	2.23
65-68	16	0.27
60-40	9	0.15
65-40	8	0.13
89-17	8	0.13
19-86	7	0.12

## 1.2 Distance vs Time Plot

Regression model between Distance and Time has an  $R^2$  value of 0.52.

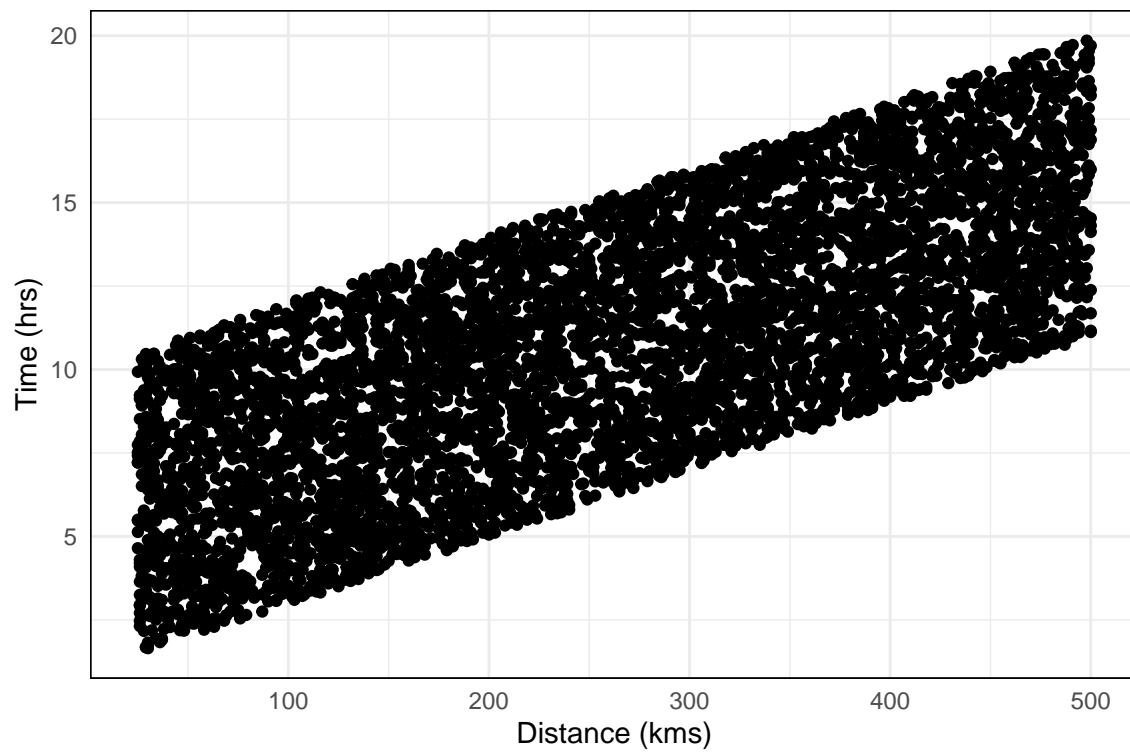


Figure 1: Distance vs Time

## 2 Summary Tables and Plots

This section contains summary Tables and Plots for the given three variables.

### 2.1 Age

A total of 11.82% belong to <20 followed by >70 consisting of 12.1% of total samples.

Table 3: Classification of samples w.r.t Age

Age	No.of Samples	Percentage(%)
<20	709	11.82
>70	726	12.10
20-30	770	12.83
31-40	1221	20.35
41-50	761	12.68
51-60	1054	17.57
61-70	759	12.65

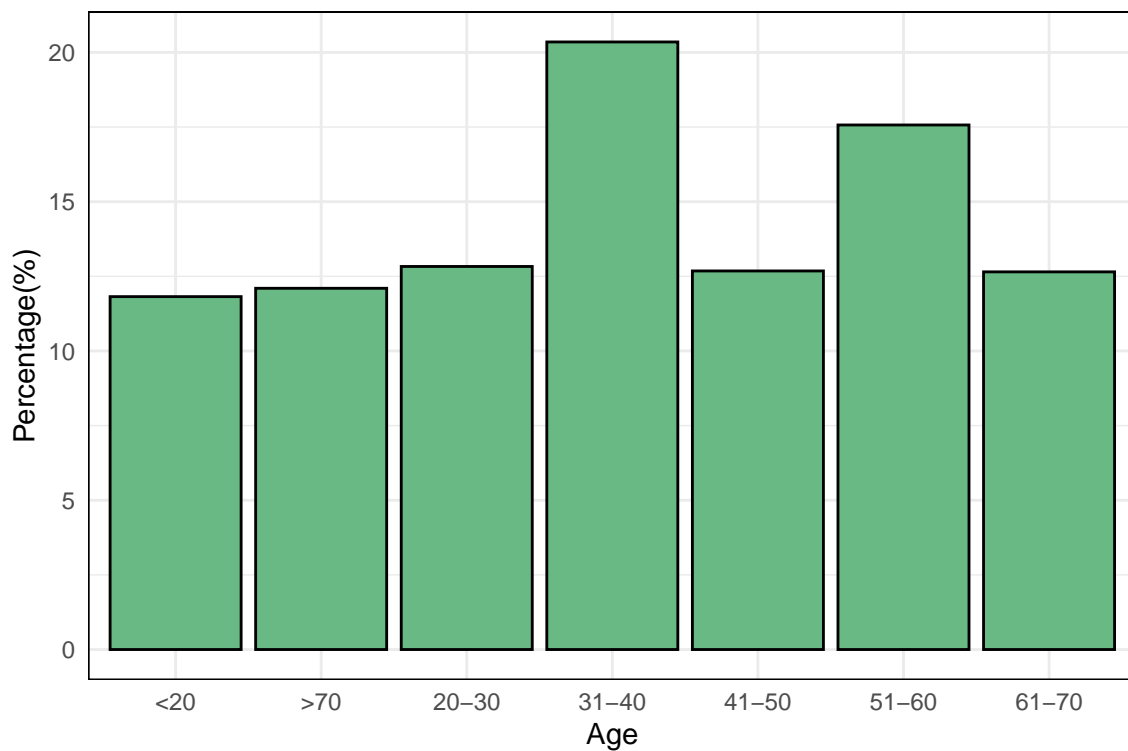


Figure 2: Variation of Age

## 2.2 Occupation

A total of 33.02% belong to Business followed by Private Emp consisting of 29.83% of total samples.

Table 4: Classification of samples w.r.t Occupation

Occupation	No.of Samples	Percentage(%)
Business	1981	33.02
Private Emp	1790	29.83
Public Emp	1729	28.82
Student	446	7.43
Unemployed	54	0.90

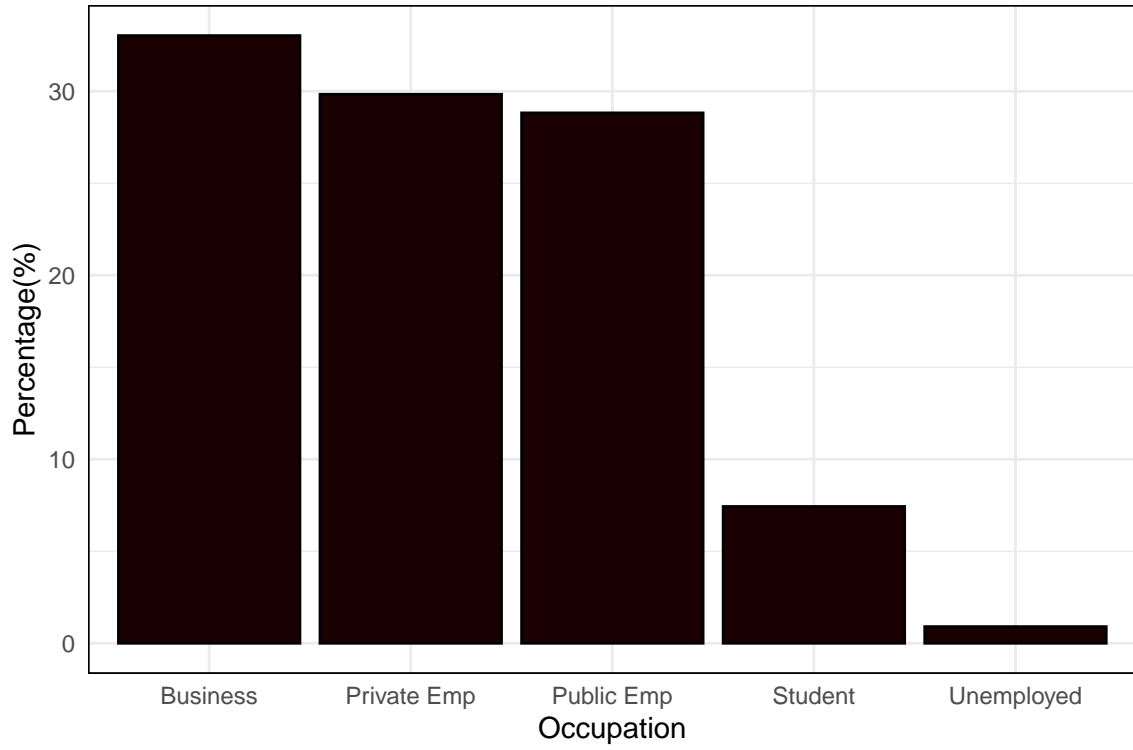


Figure 3: Variation of Occupation

## 2.3 Purpose

A total of 43.82% belong to Business followed by Educational consisting of 13.88% of total samples.

Table 5: Classification of samples w.r.t Purpose

Purpose	No.of Samples	Percentage(%)
Business	2629	43.82
Educational	833	13.88
Leisure	855	14.25
Religious	871	14.52
Work	812	13.53

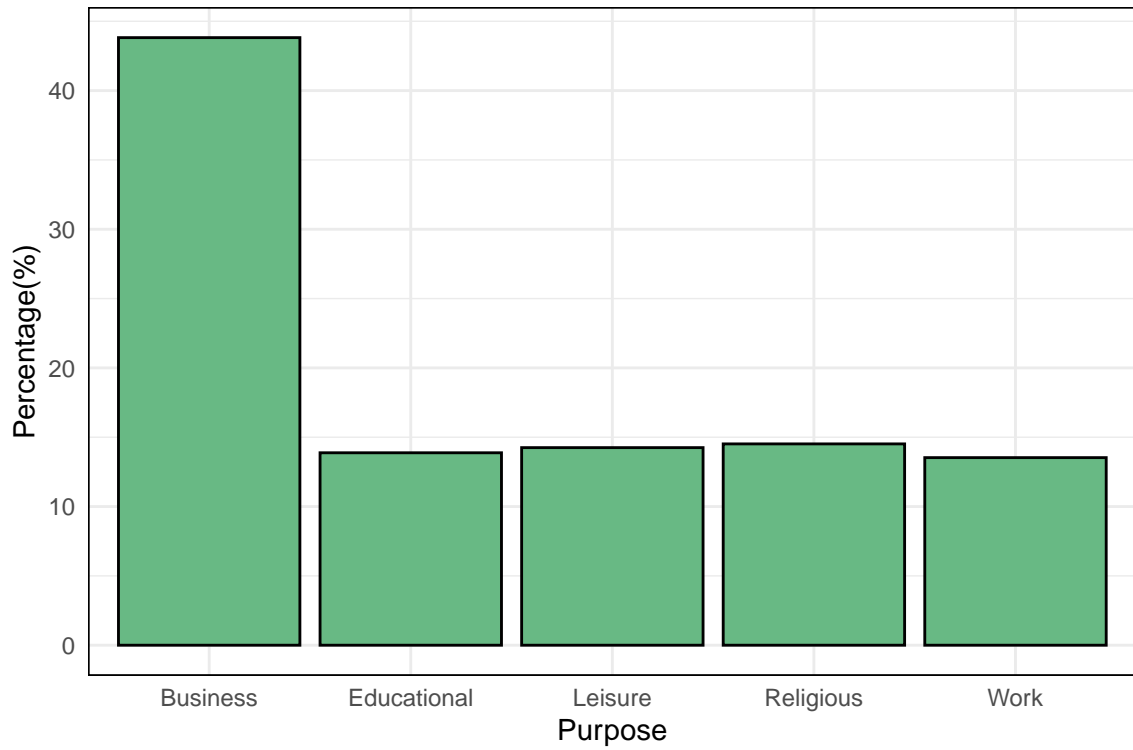


Figure 4: Variation of Purpose