

# Health Report And Monthly University Transportation Cost Based on Location

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## ABSTRACT

Pattern is everything around in this digital world. A pattern can either be seen physically or it can be observed mathematically by applying algorithms. Example: The colours on the clothes, speech pattern etc. In computer science, a pattern is represented using vector features values. In our model, we have used some features of the university dataset to retrieve our necessary prediction. These are about health report on the university students and also their monthly cost of transportation to come to the university and go to home. We have used linear regression to predict our data.

## Introduction

### Problem

We can see some health phenomena among the people. According to location we've tried to make a connection between the person and their health.

Based on the condition it will be helpful to develop the current environment of that location.

We've also considered to show their monthly university transportation cost based on individual location cause we're using a simple database which have some record of University students.

### Importance of solution

The success of a student depends on his or her hard working and punctuality. If a student is not healthy, he or she can not work hard and also if he or she wastes his or her time in traffic jam, he or she can not get enough time to finish his or her academic activities.

Health issue and traffic jam are also vital problems in our country so its not only for students but also for every single person of our country. So we have decided to develop the model.

### Background

We have used linear regression to train our dataset.

Methods

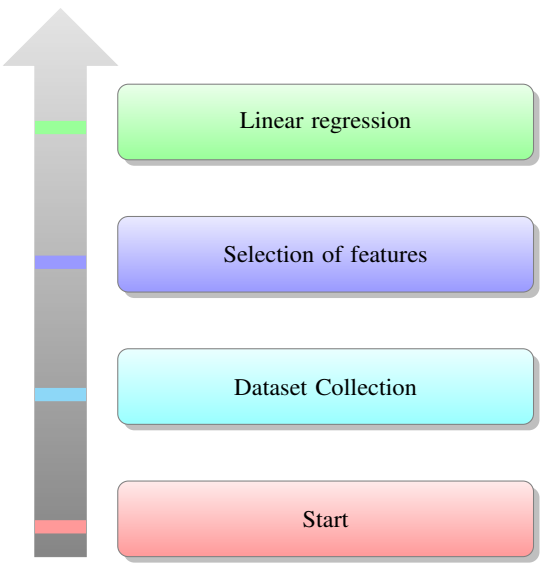


Figure 1. Block Diagram Of Counterfeit Detection Process

Results

Health

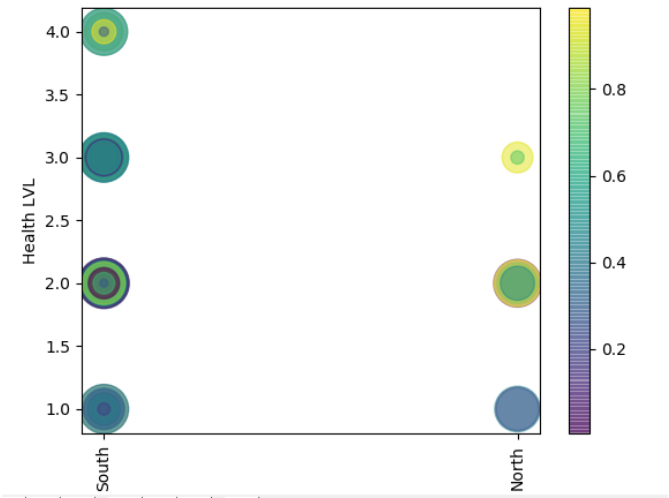
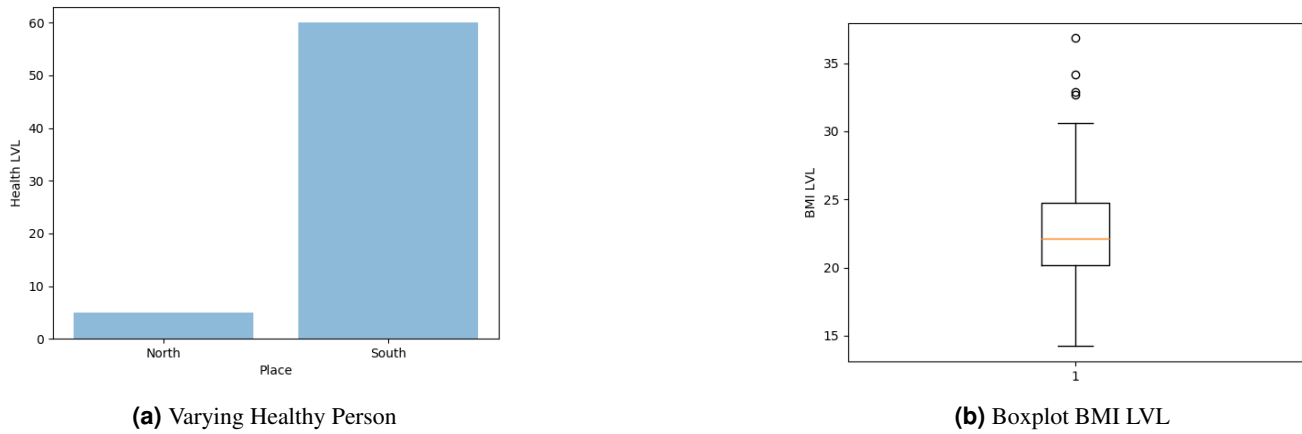


Figure 2. Segment The Solid Line from Currency

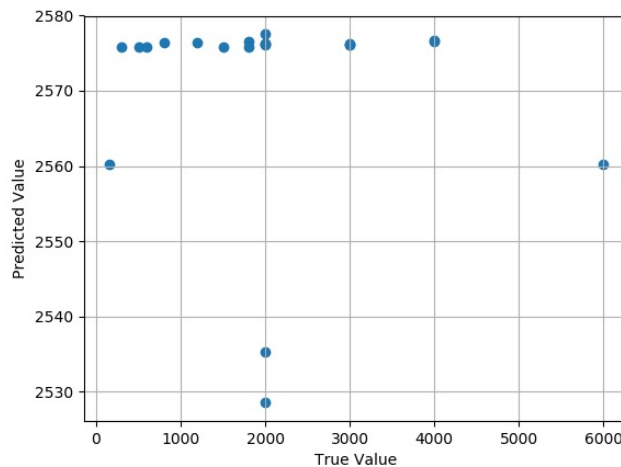
In Figure 2 , We've divided the location in North and South Zone. We've plot the Health LVL of the individuals based on each zone.



**Figure 3.** Varying Healthy Person And Boxplot BMI LVL

In Figure 3(a) , We've shown the the percentage of healthy person According to their zone  
In Figure 3(b), We've given the boxplot of BMI LVL of the persons from dataset

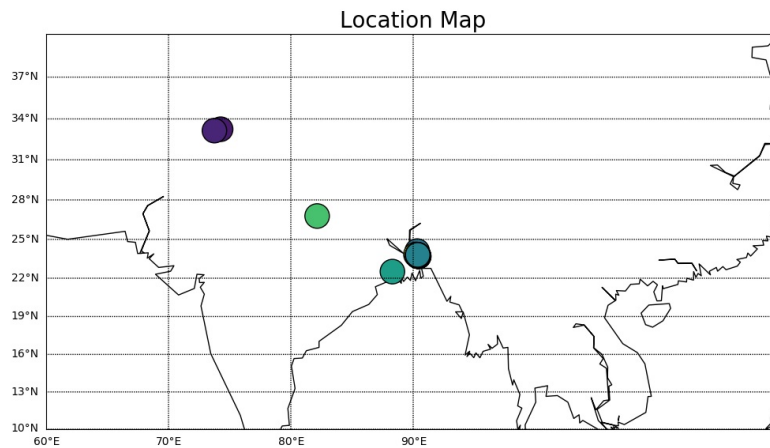
### Monthly University Transportation Cost



**Figure 4.** True and Predicted Value of University Monthly Transportation Cost

In Figure 4, Using Linear Regression We've Split the data for Training and Testing. After Processing We've Determined the Predicted Transportation Cost based on Location and Compare it with the Real Transportation Cost.

## Basemap



**Figure 5.** True and Predicted Value of University Monthly Transportation Cost

In Figure 5, We've located the places where Transportation Cost is higher than other location.

## Discussion

In this project we have worked for the health effect on our transportation problem. We have collected datas different person's location, latitude, longitude and other features. Using the collected dataset we have predicted the monthly university transportation cost and also try to focus on the health level of person's of different locations.

We didn't have sufficient data to get the satisfied result as we thought. But in future, we will add more features to get the better result.