

Terrorism in South Asian Nations

Project submitted in fulfilment of the requirements for the Degree of

BACHELOR OF TECHNOLOGY in COMPUTER SCIENCE AND ENGINEERING

By

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DECLARATION STATEMENT

I hereby declare that this research work entitled “ANALYSIS OF TERRORISM IN SOUTH ASIAN NATIONS” completed in six month phase is partial fulfilment of the requirement for the award of Degree for Bachelor of Technology in Information and Technology at Lovely Professional University, Phagwara, is an authentic work carried out under supervision of my research supervisor Mr. Nitin Umesh. I have not submitted this work elsewhere for any degree or diploma.

I understand that the work presented herewith is in direct compliance with Lovely Professional University’s Policy on plagiarism, intellectual property rights, and highest standards of moral and ethical conduct. Therefore, to the best of my knowledge, the content of this dissertation represents authentic and honest research effort conducted, in its entirety, by me. I am fully responsible for the contents of my project work.

Signature of Candidate

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ACKNOWLEDGEMENT

I take this opportunity to present my vote of thanks to all those guideposts who really acted as lightening pillars to enlighten my way throughout this project that has led to successful and satisfactory completion of this study.

I am really grateful to Mr. Nitin Umesh for providing me with an opportunity to undertake this project and providing me with all the facilities. I am highly thankful to him⁰ for his active support, valuable time and advice, whole-hearted guidance, sincere cooperation and pains-taking involvement during the study and in completing the assignment of preparing the said project within the time stipulated.

Lastly, I am thankful to all those, particularly the various friends, who have been instrumental in creating proper, healthy and conductive environment and including new and fresh innovative ideas for me during the project, without their help, it would have been extremely difficult for me to prepare the project in a time bound framework.

INTRODUCTION

Terrorism refers to the unlawful use of violence and intimidation, especially against civilians in the pursuit of political aims. It is one such problems which has crippled the nation today and the forces of the nation are trying very hard to protect itself from this. The number of terrorist have increased throughout the years and also heir violent acts.

AIM

This report reviews the terrorist environment in South Asia, concentrating on Afghanistan, Pakistan, and India, but also including Bangladesh, Sri Lanka, and Nepal for depicting the current scenarios by taking up the various parameters to determine their activities. This report talks on the basis of facts and figures which cannot be denied. The report at the end tries to suggest some issues by analysing the current facts.

In this report the objectives are shown depicting the analysis through data and analytics tool i.e. R language. Combined with the data sets and this tool we are able to show the scenarios easily through the graphs and charts drawn which helps in easy analysis of our topic. At the end we talk about possible solutions.

OBJECTIVES OF R PROJECT (TERRORISM IN SOUTH ASIAN COUNTRIES)

The following are the objectives of the R Project:

Objective 1: Percentage change in total ARM sales of the companies.

Objective 2: Comparison of number of attacks on various South Asian Countries.

Objective 3: Rise and fall of terrorist attacks on various countries throughout the years.

Objective 4: Number of Casualties reported in various types of terrorist attacks.

Objective 5: Comparison of types of weapon used to carry out the attacks.

SOME DRY TEST ON SAMPLE DATA

From the raw data, from sipri arms sales and also from global terrorism database.

OBJECTIVE 1

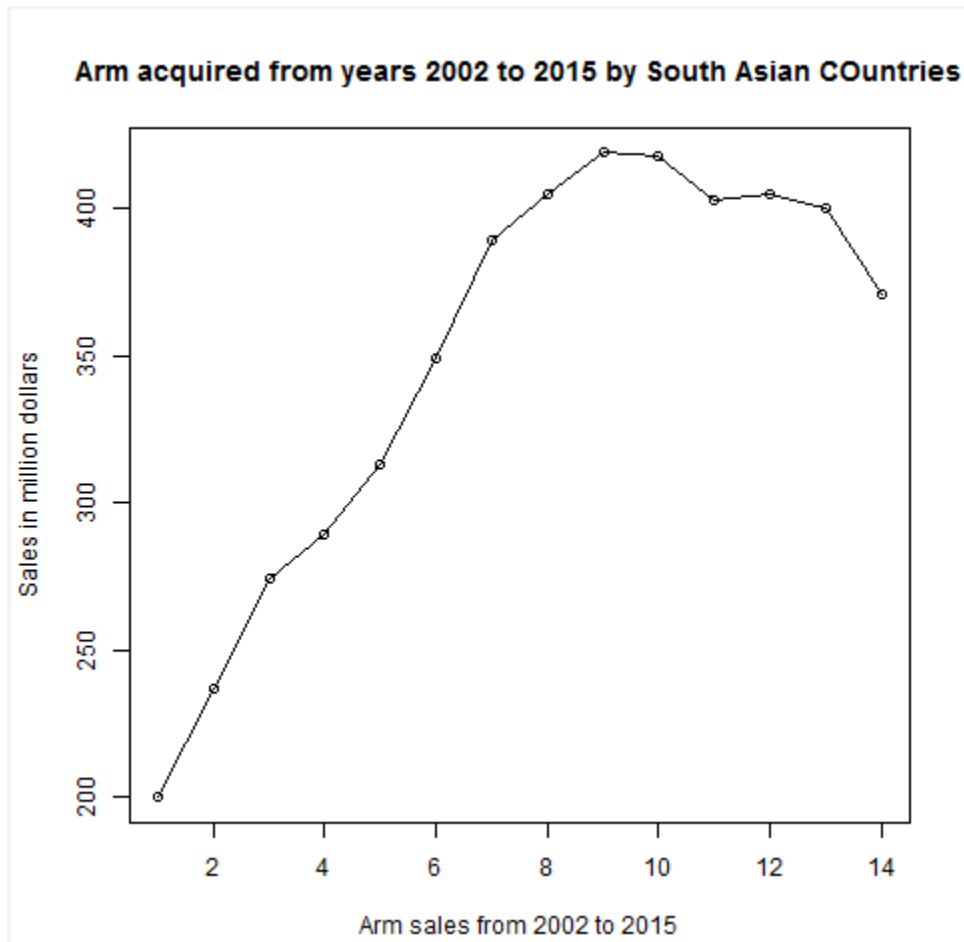
#below sale in million dollars

```
sipri_arms_purchase = c(200,237,274,289,313,349,389,405,419,418,403,405,400,371)
```

```
png(file = "Objective_1.jpg")
```

```
plot(sipri_arms_purchase,type = "o",col = "black", xlab = "Arm sales from 2002 to 2015", ylab =  
"Sales in million dollars", main = "Arm acquired from years 2002 to 2015 by South Asian  
Countries")
```

output



OBJECTIVE 2

o2_attacks_afghanistan_number=6655

o2_attacks_bangladesh_number=752

o2_attacks_bhutan_number=1

o2_attacks_india_number=3047

o2_attacks_nepal_number=202

o2_attacks_maldives_number=14

o2_attacks_pakistan_number=7247

```
o2_attacks_sri_lanka_number=45
```

```
o2_attacks_number1=c(o2_attacks_afghanistan_number,o2_attacks_bangladesh_number,o2_attacks_bhutan_number,o2_attacks_india_number,o2_attacks_maldives_number,o2_attacks_nepal_number,o2_attacks_pakistan_number,o2_attacks_sri_lanka_number)
```

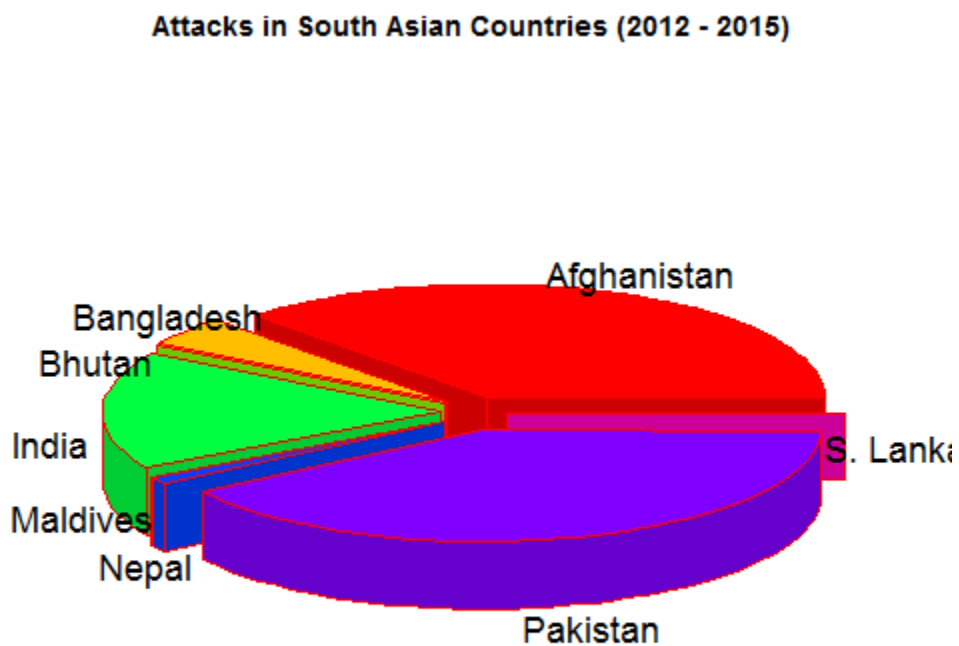
```
o2_attacks_countries1=c("Afghanistan","Bangladesh","Bhutan","India","Maldives","Nepal","Pakistan","S. Lanka")
```

```
png(file="OBJECTIVE_2.png")
```

```
pie3D(o2_attacks_number1,labels=o2_attacks_countries1,explode=0.1,main="Attacks in South Asian Countries (2012 - 2015)",border="red")
```

```
dev.off()
```

output



OBJECTIVE 3

#Bhutan, Maldives and Sri Lanka neglected due to very less attacks (<100 in total) as compared to others (attacks in thousands/year)

```
Attacks_2012=c(1469,18,611,46,1652)
```

```
Attacks_2013=c(1441,139,694,102,2213)
```

```
Attacks_2014=c(1820,130,860,7,2147)
```

```
Attacks_2015=c(1926,465,882,47,1235)
```

```
png(file = "Objective_3.jpg")
```

```
plot(Attacks_2012,type = "o",col = "red", xlab = "1-Afghanistan 2-Bangladesh 3-India 4-Nepal  
5-Pakistan", ylab = "Number of Attacks", main = "Number of Attacks on South Asian  
Countries")
```

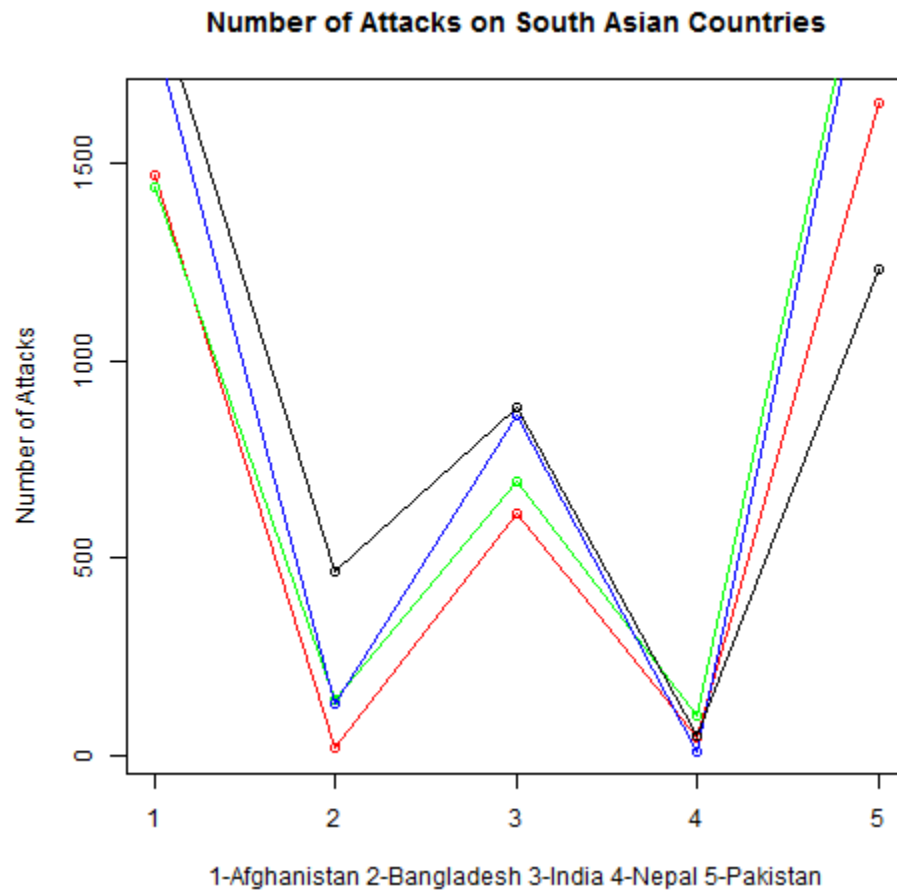
```
lines(Attacks_2013, type = "o", col = "green")
```

```
lines(Attacks_2014, type = "o", col = "blue")
```

```
lines(Attacks_2015, type = "o", col = "black")
```

```
dev.off()
```

output



OBJECTIVE 4

```
attacks=c("A","R","B","H","I")
```

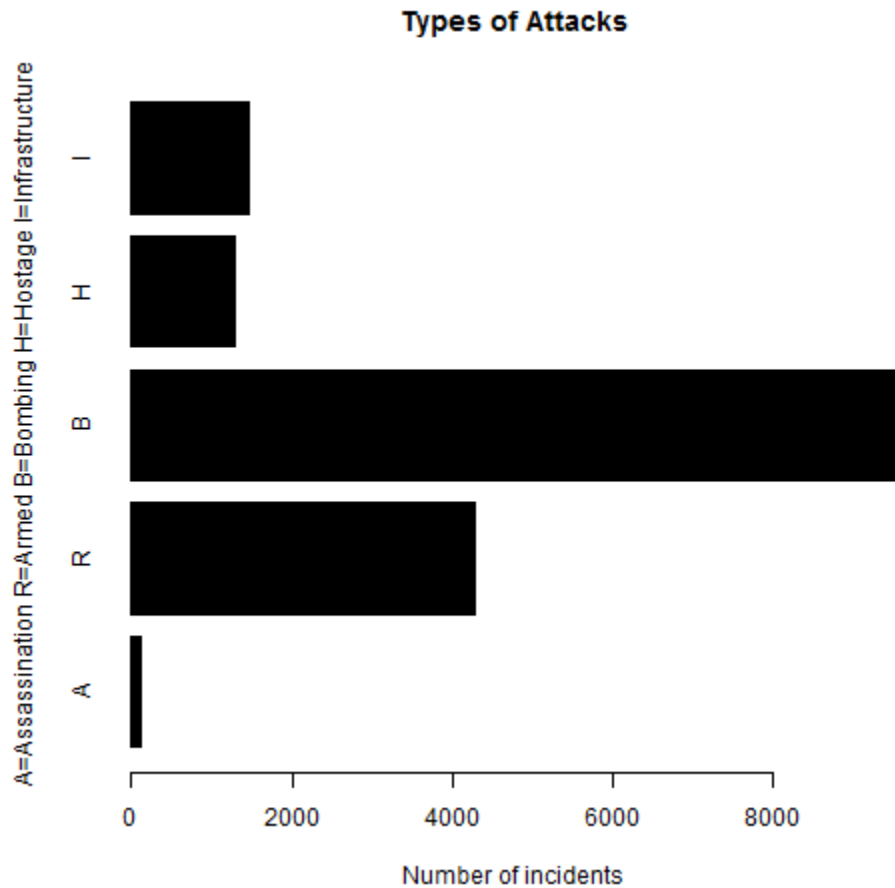
```
incidents=c(118,4291,9660,1293,1454)
```

```
png(file="Objective_4.jpg")
```

```
barplot(incidents,main = "Types of Attacks",xlab = "Number of incidents",ylab =  
"A=Assassination R=Armed B=Bombing H=Hostage I=Infrastructure",names.arg = attacks,col =  
"black",horiz = TRUE)
```

```
dev.off()
```

output



OBJECTIVE 5

```
weapon_types_values <- c(15104,13014,5626)
```

```
weapon_types <- c("Explosives","Rifles","Suicide Bombing")
```

```
png(file="Objective_5.jpg")
```

```
pct <- round(weapon_types_values/sum(weapon_types_values)*100)
```

```
weapon_types <- paste(weapon_types, pct) # add percents to labels
```

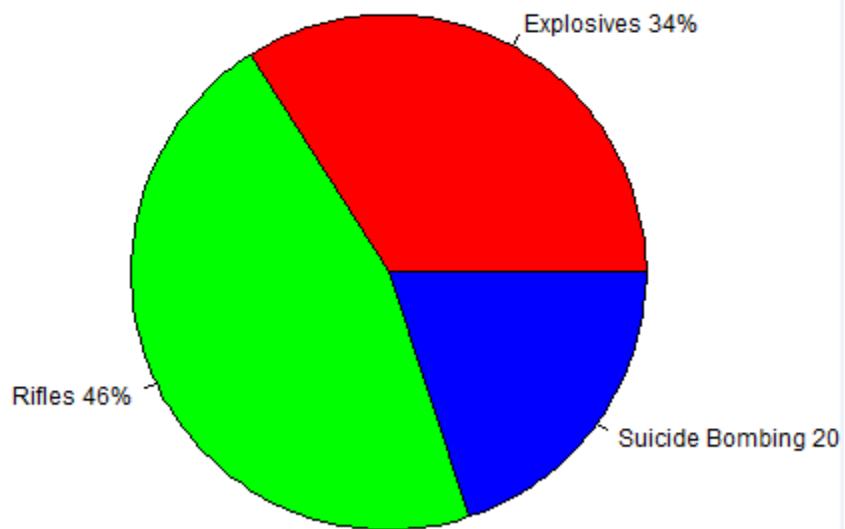
```
weapon_types <- paste(weapon_types,"%",sep="") # ad % to labels
```

```
pie(weapon_types_values,labels = weapon_types,  
col=rainbow(length(weapon_types)),main="Distribution of Attacks on types of weapons used")
```

```
dev.off()
```

output

Distribution of Attacks on types of weapons used



RESULTS AND CONCLUSIONS

1. The output of 1st objective clearly shows that the arms sales has been increasing throughout the years 2002 till 2012 after which it started decreasing. This is the time where the countries realized that they had to protect themselves from the outer threats from other nations and growing terrorism. Since South Asia is considered to be the growing economy so this has high arms purchase for the various military purposes.

The sales have been increasing but there arises a question that if the companies manufacturing the artillery and other guns sell their products only to the armies or the governments, how come the terrorist gets funding. So this needs to be made sure that proper management and strict rules need to be adhered so the terrorists are unable to purchase the weapons for their use.

2. The output of the 2nd objective depicts the terrorist attacks on the South Asian countries which includes Afghanistan, Bangladesh, Bhutan, India, Maldives, Nepal, Pakistan and Sri Lanka. Although most of the terrorist attacks in South Asia are encountered in Afghanistan followed by Pakistan and India and they contribute for about 90% of the terrorist attacks as clearly depicted in the pie chart.

This needs to be controlled and the government of various countries is trying their level best for containment of the number of attacks and to reduce it and should continue to the same to make the countries safe for the people.

3. The line graph in the 3rd objective depicts the number of attacks on top 5 countries based on the number of attacks from 2012 to 2015. Red colored line shown attacks for 2012, followed by green colored line for the year 2013. Similarly for 2014 color blue and for 2015 color black. The image shows that the attacks has been following the alternate trend which means that the terrorist organizations are more active every 2 years. Although this can just be assumed. As actual terrorist activities cannot be decided solely on the basis of this pattern.

The number of attacks seems to be rising and this needs to be controlled sooner enough or the current scenarios could surely lead to World War 3 as terrorist are being funded by one or the other country. For terrorism in South Asian countries to reduce these attacks in these countries needs to be reduced.

4. Now coming to the 4th objective we see the types of terrorist attack. In this we can see that their preferred weapon is explosives. Now this explosives includes Molotov, grenades, time bombs, etc. Their 2nd best choice is Armed i.e. use of rifles and bullet proof vest for the encounters between the armed forces and them. These 2 depicts that few terrorist organizations are just spreading fear with no purpose to be seen. Only a few

organizations are aiming at VIP personalities based on number of assassinations and infrastructure damage followed by hostages.

To stop this we need forces that are active and react on any suspicious activity so that the terrorists are not able to creep in while we are fighting the elements within our nation.

One mistake can cost many lives if not properly dealt.

5. 5th objective deals with the types of weapons used out of which Rifles are preferred the most at 46% followed by the explosives at 34% and then suicide bombers which account for about 20 %.

Many reports and articles gives us the information that the favorite weapon for the terrorists is AK-47 which is cheap and readily available. So to control this one needs to control the production and sales of this. It is the cheap lethal weapon available in the market out today. Similarly controlling the manufacturing and sales of explosives can weaken them.

REFERENCES

Following are the references from where the raw data is collected:

1. <https://www.sipri.org/databases>
2. <https://www.start.umd.edu/gtd/>
3. <https://www.tutorialspoint.com/r/>
4. <http://www.statmethods.net/graphs/pie.html>
5. www.iwar.org.uk/news-archive/crs/30422.pdf