Analysis on Mahakumbhmela

About:

Mahakumbhmela is world's largest public gathering and collective act of faith binded with Hindu mythology. This congregation, primarily, includes Ascetics, Saints, Sadhus, Sadhvis, Kalpvasis and Pilgrims from all walks of life.

Kumbh Mela, in Hinduism, is a religious pilgrimage that is celebrated four times over a course of 12 years. The geographical location of Kumbh Mela spans over four locations in India and the Mela site keeps rotating between one of the four pilgrimages on four sacred rivers as listed below:

- In Haridwar, Uttarakhand, on the banks of Ganges
- In Ujjain, Madhya Pradesh on the banks of Shipra
- In Nashik, Maharashtra on the banks of Godavari
- In Prayagraj, Uttar Pradesh, at the confluence of the Ganges, the Yamuna, and the mythical invisible Sarasvati

Each site's celebration is based on a distinct set of astrological positions of the Sun, the Moon, and the Jupiter. The Maha Kumbh Mela 2025 is going to be held at Prayagraj from January 13th, 2025 to February 26th, 2025.

This kind of huge event must be analyzed for organizing such events successfully in future.

Data:

The source of data is from daily news articles, and futuristic data is with help of ChatGPT.

Power BI Analysis:

I have used this data to analyze using Power BI.

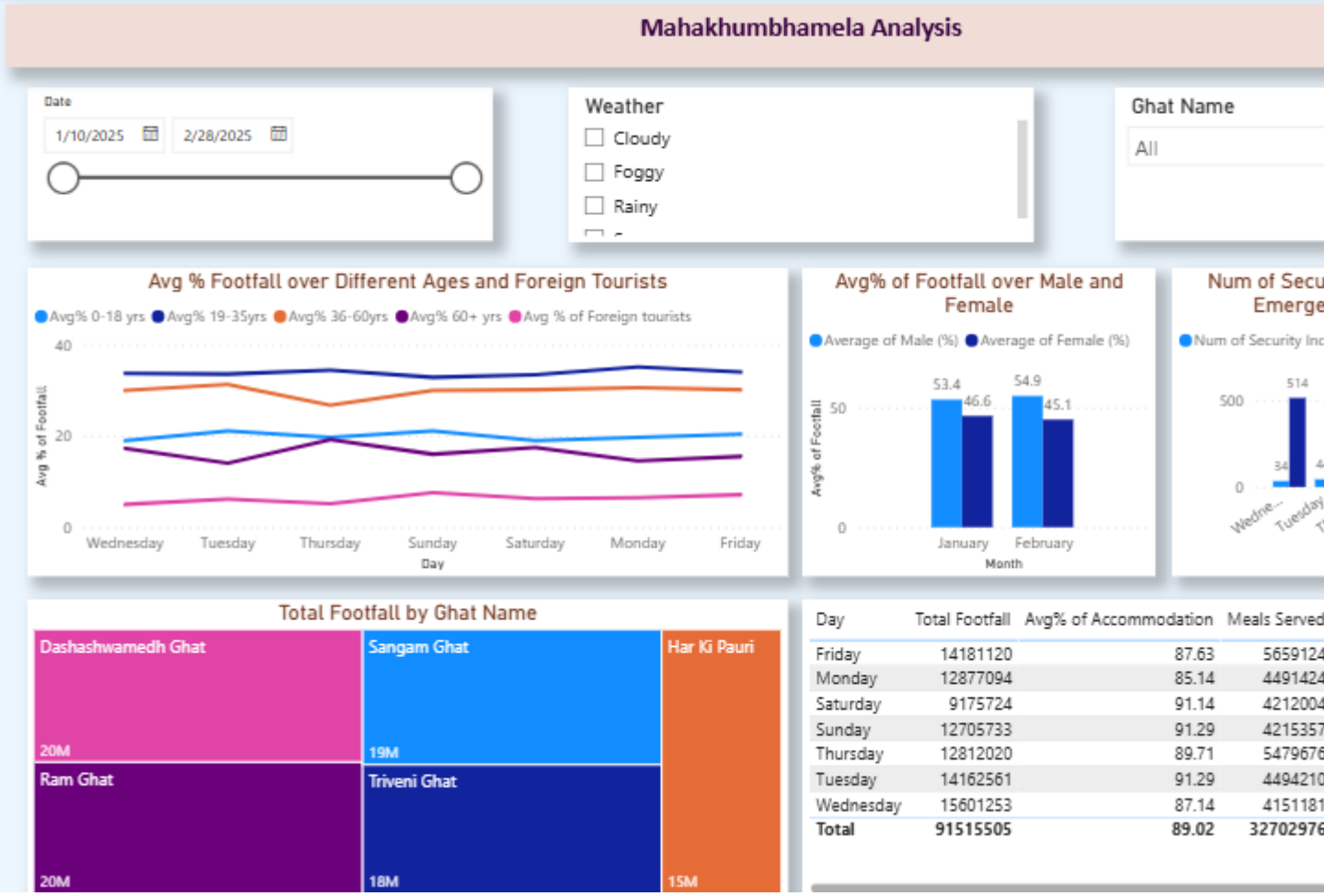

Fig 1: Report on MahaKumbhMela

I have used 3 different slicers based on Date, Weather, Ghat Name for better understanding of data.

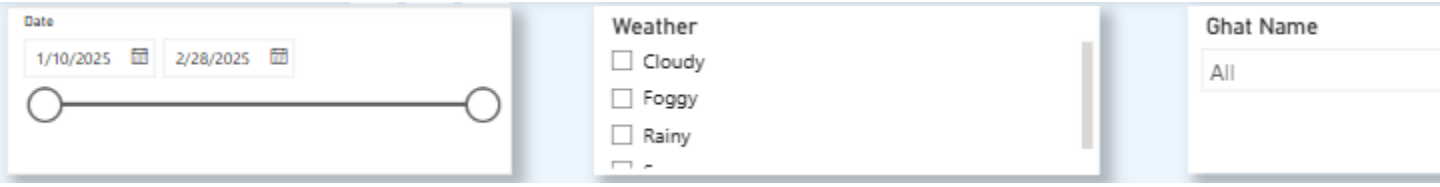

Fig 2: Slicers

To analyze the average footfall over different age groups and foreign tourists over days, I have preferred *Line Chart* visual as I need to understand data over a timeline.

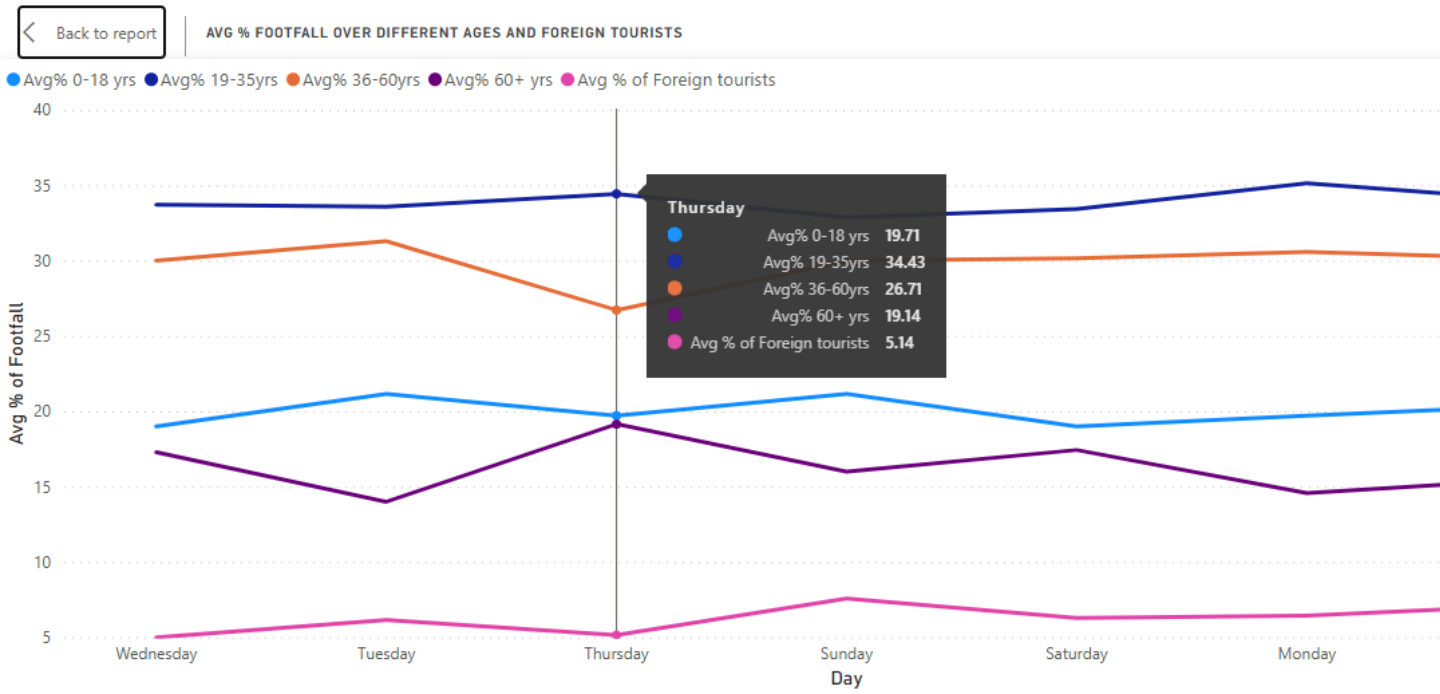

Fig 3: Average % of footfall over different ages and foreign tourists.

MahaKumbhmela occurs at different ghats, to analyze total footfall over different ghats, used a *Tree Map* visualization. For this visual, based on share of area, its very easy to understand.

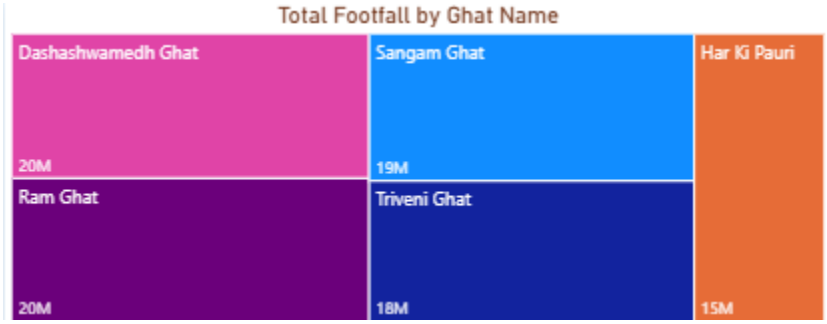

Fig 4: Total Footfall by Ghat Name

In huge religious gatherings, offerings there will be generation of huge amount of wastage. Its required to analyze how much wastage is being generated. Here, I have preferred analyzing wastage based on different ghats over days. So, I have used *Bar Chart* as tooltip on previous visual.

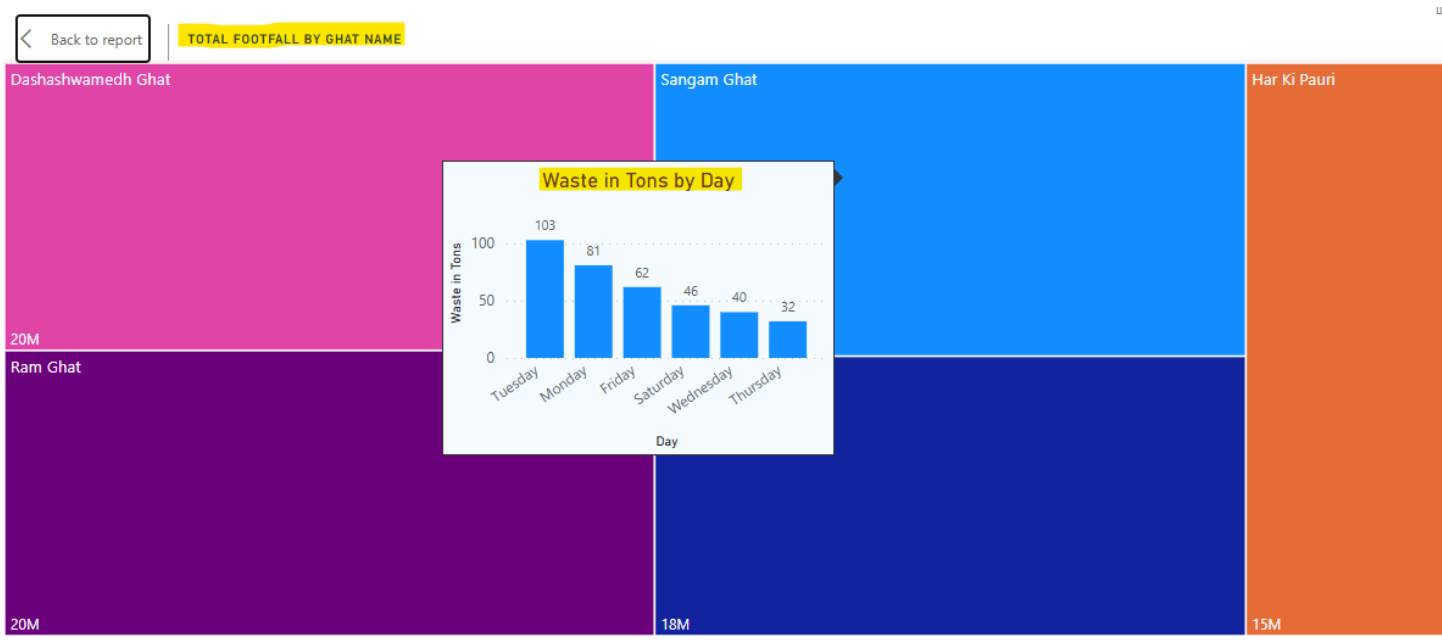

Fig 5: Waste in Tons by Day for different ghats

Below visual shows Avg% of footfall share of gender over months using *Bar chart* visualization and also day wise through a *Pie Chart* as a tooltip.

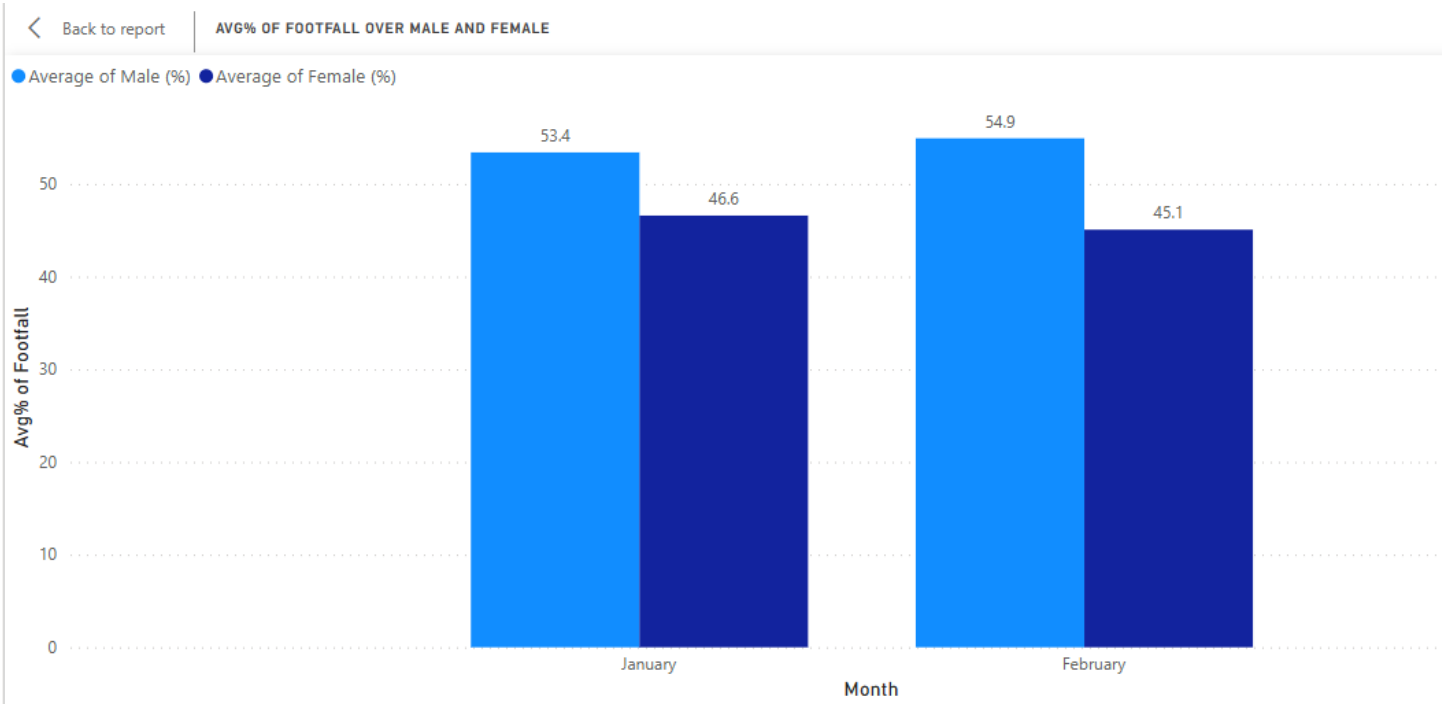

Fig 6: Avg% of footfall based on gender over month

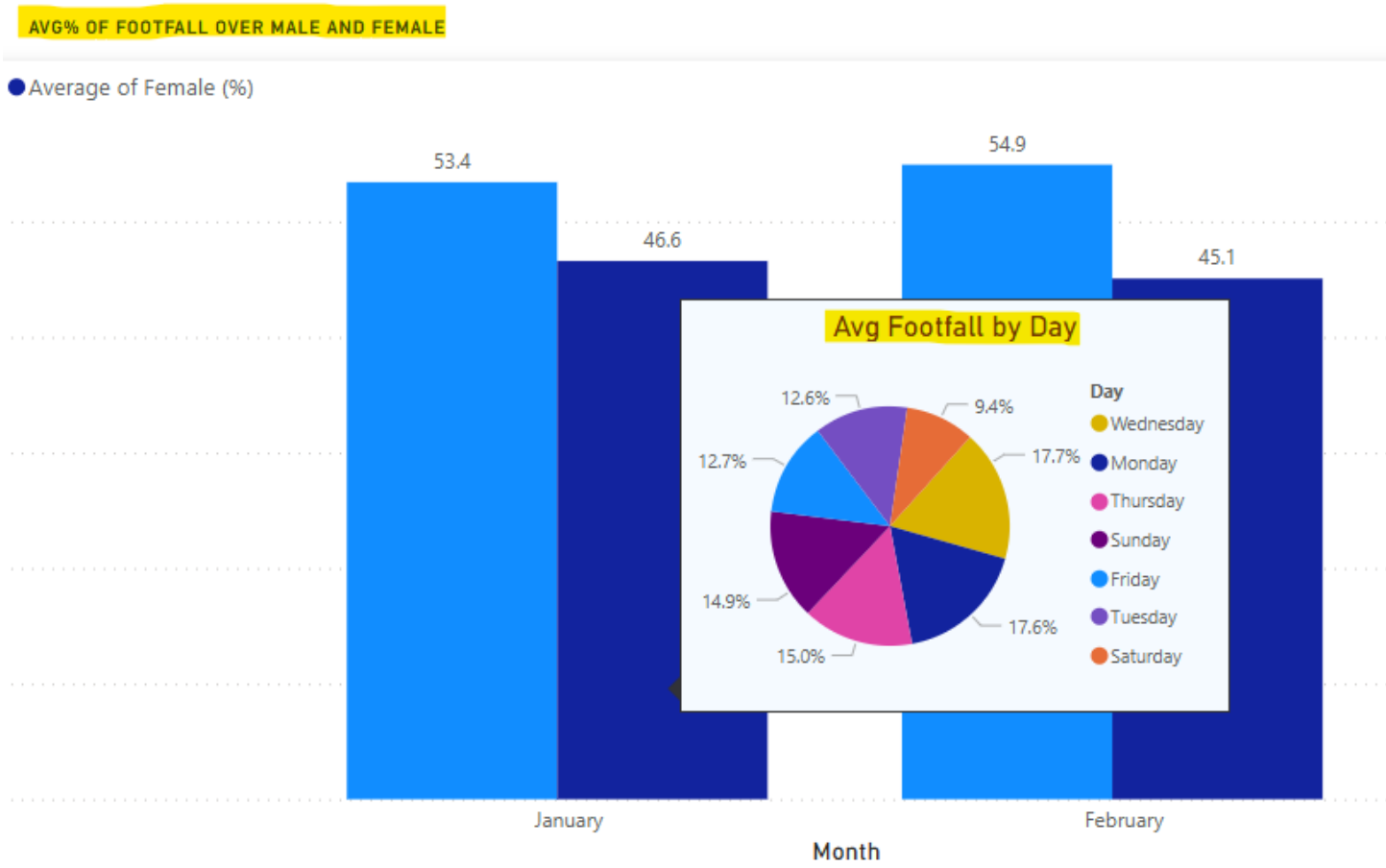

Fig 7: Avg% of footfall day wise for each month.

During huge gatherings like this, medical emergencies and security incidents are frequent. Its required to analyze on which days and ghats these type of incidents are more frequent.

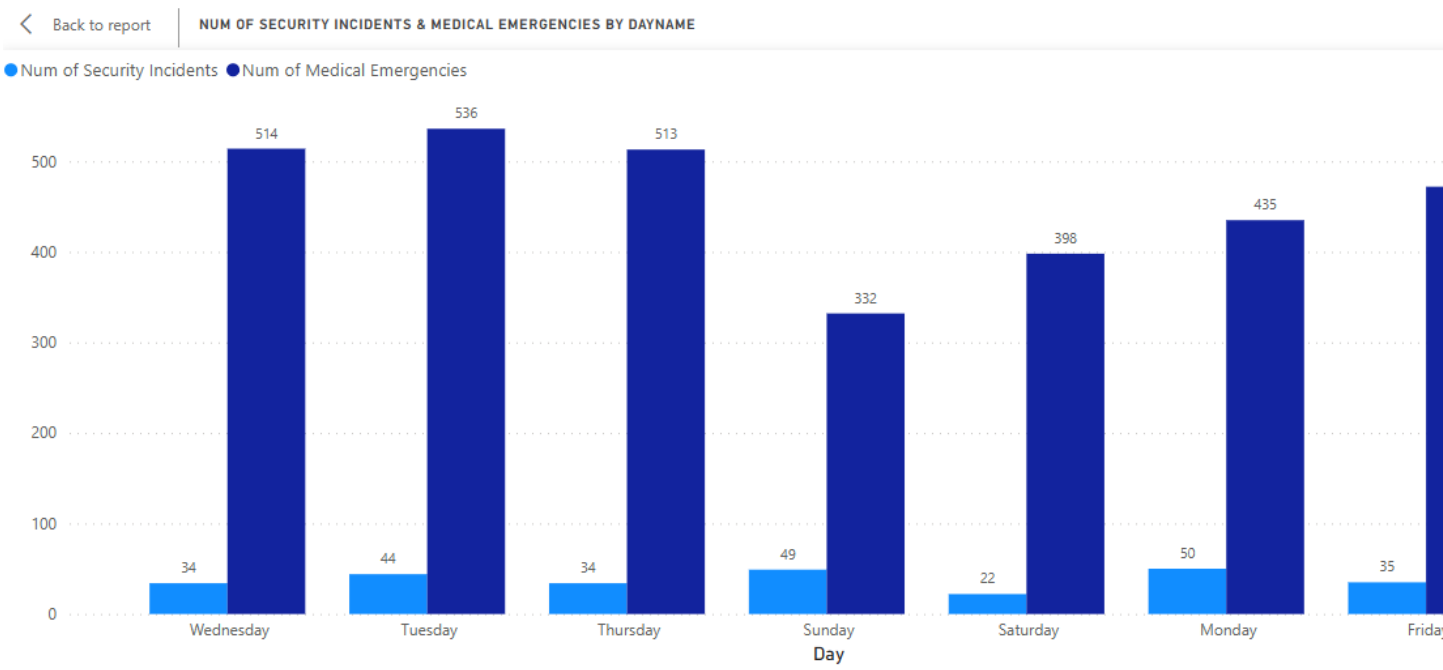

Fig 8: Num of Security Incidents and Medical Emergencies by day

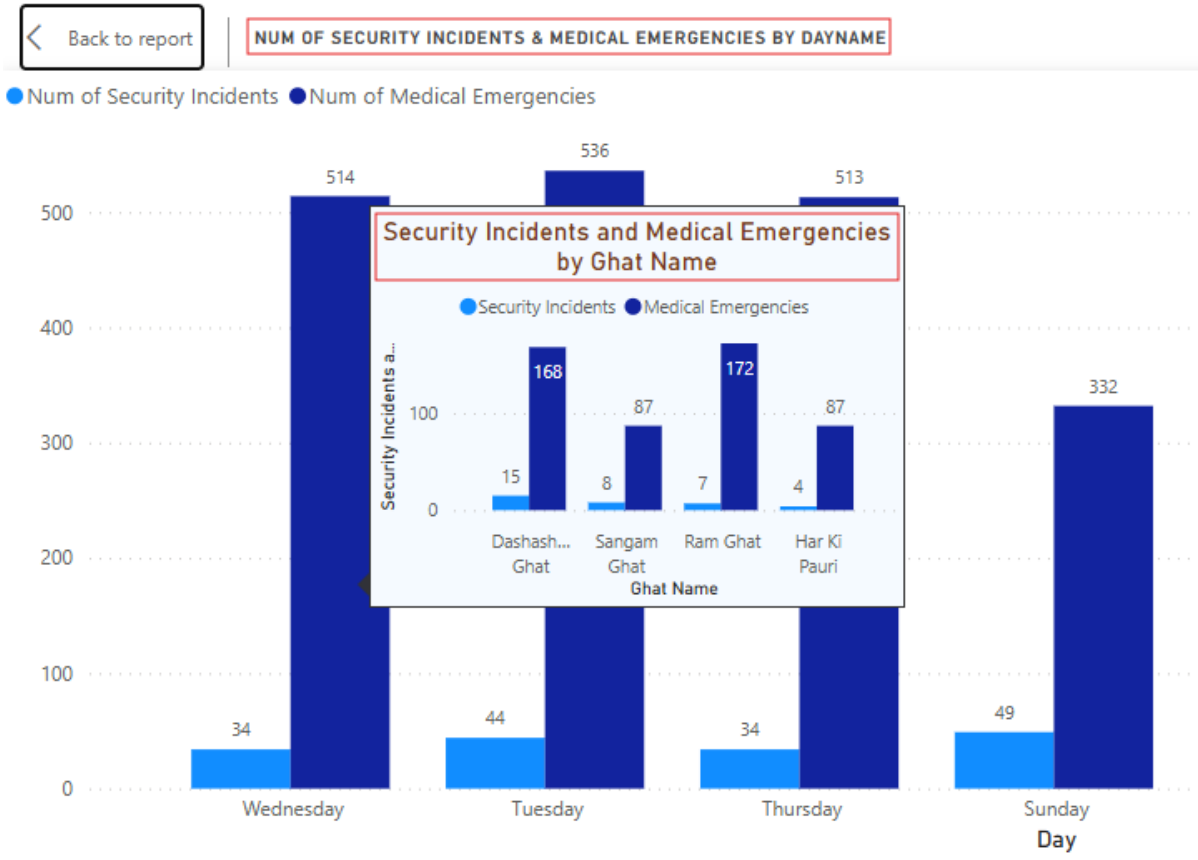

Fig 9: Number of Security Incidents and Medical Emergencies by Day and Ghat wise

In below screenshot, having multiple details like total footfall, meals served, Accommodation etc. day wise through a *table* visual.

Day	Total Footfall	Avg% of Accommodation	Meals Served	Religious Processions	Social Mentions
Friday	14181120	87.63	5659124	123	804140
Monday	12877094	85.14	4491424	117	560055
Saturday	9175724	91.14	4212004	120	754376
Sunday	12705733	91.29	4215357	128	542042
Thursday	12812020	89.71	5479676	93	533750
Tuesday	14162561	91.29	4494210	119	680233
Wednesday	15601253	87.14	4151181	85	757095
Total	**91515505**	**89.02**	**32702976**	**785**	**4631691**

Fig 10: Day wise Details