CRASH SEVERITY AND PATTERN ANALYSIS
INDIA, 2022–2023

This dashboard analyzes major road crash incidents across India for 2022 and 2023.
Navigate through sections to explore crash trends by time, location, crash type, and vehicle involvement.

KPI

Total crashes reported
2,888

Total Injured
7,779

Total Killed
6,557

Avg Fatalities Per Crash 2.27
Avg Injuries Per Crash 2.69

Avg Reporting Delay
1.32 days

Temporal and Demographic

Geographic Insights

Road and Crash Types Insights
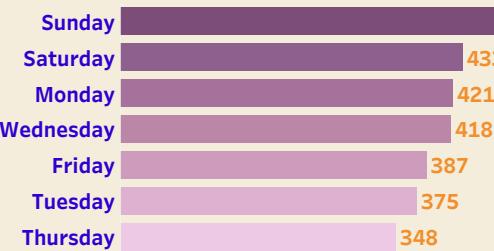
Crash Trends by Time and Demographics

Select crash metric

- Crash count
- Total Killed
- Total Injured
- Avg Fatality Per crash
- Avg Injuries Per Crash

Filter by year
- ✔ 2022
- ✔ 2023
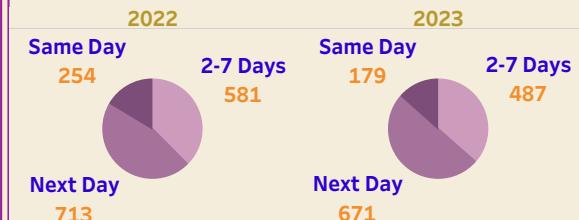
Crash Metrics by Day of the Week
Metric shown: Crash count

Day	Crash count
Sunday	506
Saturday	433
Monday	421
Wednesday	418
Friday	387
Tuesday	375
Thursday	348

Reporting Delay Distribution by Year and Metric
Metric Shown: Crash count

2022
- Same Day 254
- 2-7 Days 581
- Next Day 713

2023
- Same Day 179
- 2-7 Days 487
- Next Day 671
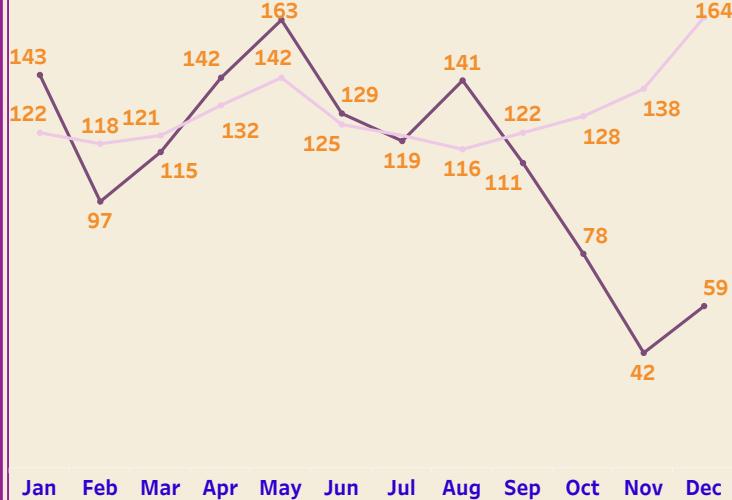
Monthly Crash Metrics Trends 2022 vs 2023
Metric shown: Crash count

Year of crash: 2022, 2023

2022: Jan 122, Feb 118, Mar 121, Apr 142, May 142, Jun 129, Jul 119, Aug 122, Sep 128, Oct 138, Nov 164, Dec 164

2023: Jan 143, Feb 97, Mar 115, Apr 142, May 163, Jun 125, Jul 119, Aug 141, Sep 116, Oct 111, Nov 78, Dec 42, 59

Crash Metrics by Age Group and Gender
Metric shown: Crash count

	Both	Female	Male	Trans	Unknown
0-17	44	57	127		5
18-30	121	76	599	2	10
31-45	151	70	363	2	6
46-60	81	66	218		6
60+	34	39	87		
Unknown	127	39	324		234

Crash Metrics by Age Group and Crash type
Metric Shown: Crash count

	0-17	18-30	31-45	46-60	60+	Unkn..
Fixed Object Collision	9	123	42	22	10	52
Head On Collision	38	194	106	81	25	192
Hit and Run	85	119	120	81	66	93
Hit From Back	33	117	96	56	21	65
Hit From Side	3	21	28	10	4	22
Others	31	92	85	45	14	107
Run Off Road	16	69	45	28	6	88
Vehicle Overturn	10	30	34	31	8	62
With Parked Vehicle	8	42	36	17	6	43

Geographical Distribution of Crash Severity

Select crash metric

- ● Crash count
- ○ Total Killed
- ○ Total Injured
- ○ Avg Fatality Per crash
- ○ Avg Injuries Per Crash

Filter by Year
- ✔ 2022
- ✔ 2023

Top states by crash metric
8
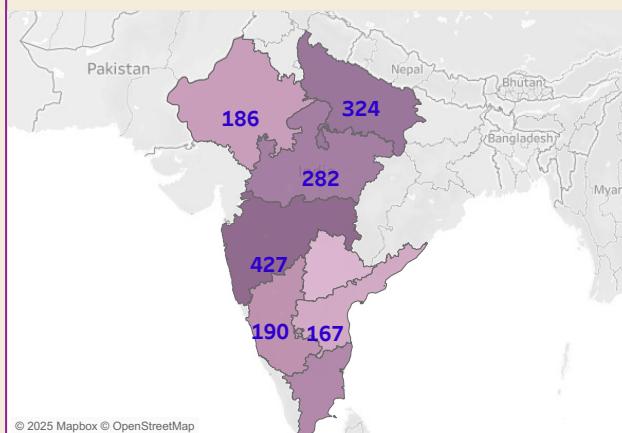
Top million plus cities
7
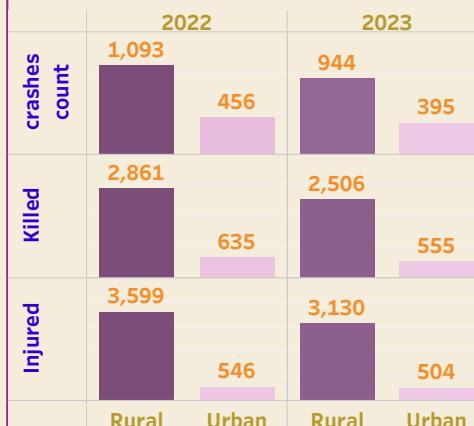
Top risk locations
5
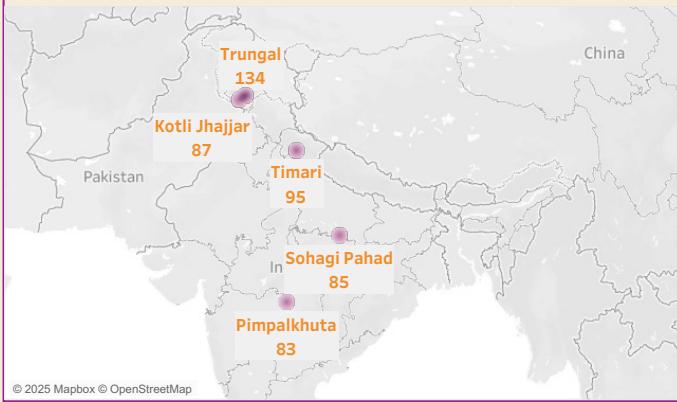
Crash Metrics by State   Metric shown: Crash count

Pakistan
Nepal
Bhutan
Bangladesh
Myann

186
324
282
427
190 167

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Crash Trends in Urban vs Rural Areas

	2022		2023	
crashes count	Rural 1,093	Urban 456	Rural 944	Urban 395
Killed	2,861	635	2,506	555
Injured	3,599	546	3,130	504
	Rural	**Urban**	**Rural**	**Urban**

High-Risk Crash Locations by Severity Score

China
Pakistan
In

Trungal
134

Kotli Jhajjar
87

Timari
95

Sohagi Pahad
85

Pimpalkhuta
83

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Crash severity rankings among India's largest cities

City		
Delhi	214.4	112.9
Kolkata	115.3	192.4
Nashik	151.0	141.7
Bengaluru	87.4	159.7
Indore	103.4	135.9
Mumbai	104.1	125.4
Pune	100.7	107.0
Chennai	93.8	87.5
Hyderabad	94.6	69.6
Bhopal	67.2	91.6

Road and Crash Type Analysis

Select crash metric
- Crash count
- Total Killed
- Total Injured
- Avg Fatality Per crash
- Avg Injuries Per Crash

Filter by Year
- ✓ 2022
- ✓ 2023

Top high risk vehicle combo
4

Top vehicle combo and road type
8

Crash metrics by crash type
Metric shown: Crash count

Crash Type	2022	2023
Hit and Run	303	261
Head On Collision	294	342
Others	225	149
Hit From Back	188	200
Fixed Object Collision	165	93
Vehicle Overturn	125	50
Run Off Road	111	141
With Parked Vehicle	91	61
Hit From Side	47	41

Crash metrics by road type
Metric shown: Crash count

Crash Year
- 2022
- 2023

	NH	OR	SH
2022	537	729	283
2023	418	726	195

High-Risk Vehicle Pairings
Metric shown: Crash count

- 210 Car vs Truck
- 342 Two Wheeler vs Truck
- 141 Pedestrian vs Car
- 175 Two Wheeler vs Car

Crash metrics by state and road type
Metric shown: Crash count

State – Road Type	Crash count
Maharashtra – OR	197
Uttar Pradesh – OR	177
Maharashtra – NH	175
Madhya Pradesh – OR	155
Uttar Pradesh – NH	107
Tamil Nadu – OR	97
Karnataka – OR	90
Rajasthan – OR	75
Karnataka – NH	74
Madhya Pradesh – NH	72

Crash metrics by Vehicle combo and road type
Metric shown: Crash count

Vehicle Combo	NH	OR	SH
Two Wheeler vs Truck	125	169	48
Car vs Truck	102	73	35
Two Wheeler vs Car	42	95	38
Two Wheeler vs Unidentified	38	47	11
Two Wheeler vs Bus	33	61	13
Pedestrian vs Truck	32	62	18
Pedestrian vs Car	25	100	16
Two Wheeler vs Two Wheeler	14	55	14