

1. List the top 5 and bottom 5 areas with highest average AQI.  
(Consider areas which contains data from last 6 months:  
December 2024 to May 2025)

area	Average of Avg_AQI	Data Points
Byrnihat	284.19	118
Delhi	238.92	150
Hajipur	233.67	141
Gurugram	204.14	146
Patna	199.65	150

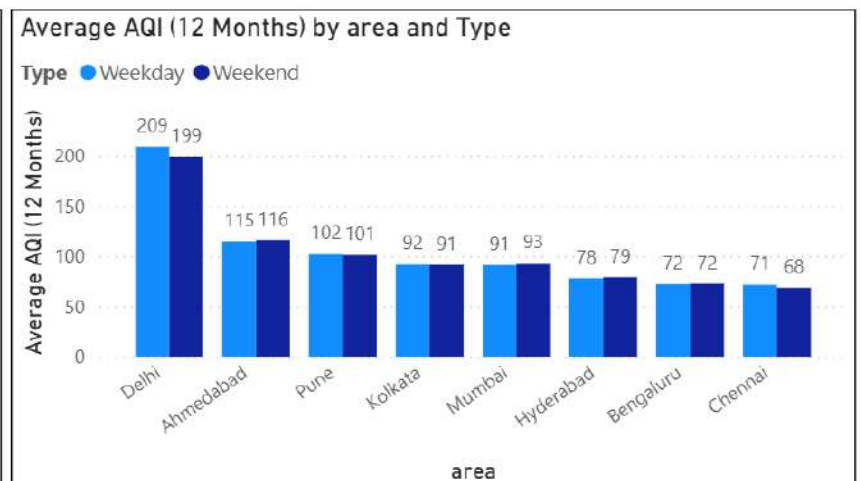
area	Avg AQI	data points
Tirunelveli	33.31	129
Palkalaiperur	42.79	117
Madikeri	42.95	143
Chamarajanagar	44.81	130
Thanjavur	45.51	115

2. Top 2 and bottom 2 pollutants for each state of southern India

Top	Pollutants	Bottom	Pollutants
Andra Pradesh	PM10, PM2.5	Andra Pradesh	SO <sub>2</sub> , NO <sub>2</sub>
Kerala	PM10, PM2.5	Kerala	SO <sub>2</sub> , NH <sub>3</sub>
Tamil Nadu	PM10, PM2.5	Tamil Nadu	NH <sub>3</sub> , O <sub>3</sub>
Telengana	PM10, PM2.5	Telengana	NO <sub>2</sub> , O <sub>3</sub>
Karnataka	PM10, CO	Karnataka	NH <sub>3</sub> , NO <sub>2</sub>

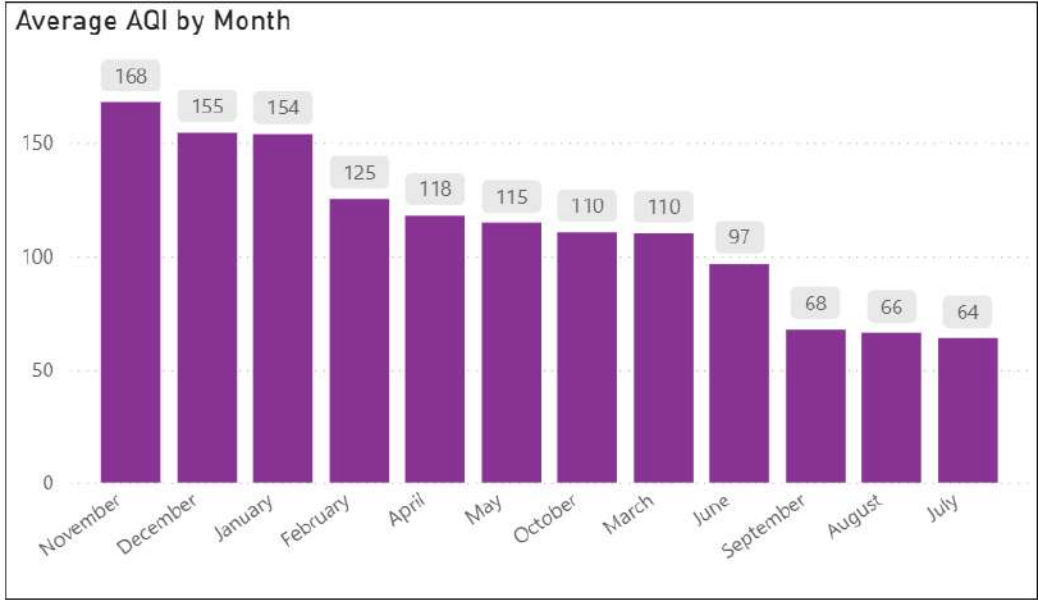
3. Does AQI improve on weekends vs weekdays in Indian metro cities (Delhi, Mumbai, Chennai, Kolkata, Bengaluru, Hyderabad, Ahmedabad, Pune)? (Consider data from last 1 year)

Area	Weekday	Weekend	
Delhi	208.78	198.92	↓
Ahmedabad	114.67	116.04	↑
Pune	101.94	100.85	↓
Kolkata	91.66	91.26	↓
Mumbai	90.95	92.65	↑
Hyderabad	77.94	79.01	↑
Bengaluru	71.89	72.38	↑
Chennai	71.31	68.44	↓



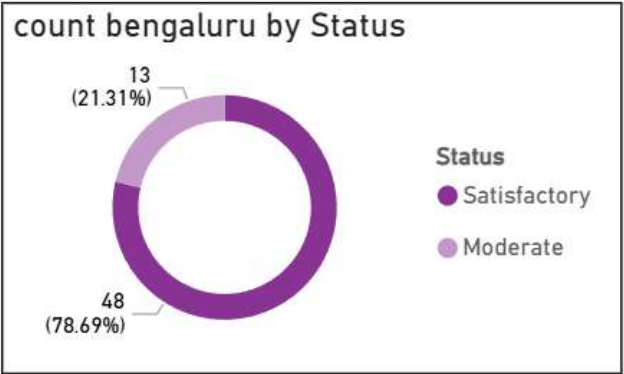
4. Which months consistently show the worst air quality across Indian states — (Consider top 10 states with high distinct areas)

state	count dist
Rajasthan	34
Maharashtra	31
Karnataka	27
Tamil Nadu	26
Bihar	25
Haryana	25
Uttar Pradesh	20
Odisha	16
Madhya Pradesh	15
Andhra Pradesh	9



5. For the city of Bengaluru, how many days fell under each air quality category (e.g., Good, Moderate, Poor, etc.) between March and May 2025?

Status	Days fell under each category
Satisfactory	48
Moderate	13
Total	61



7. List the top 5 states with high EV adoption and analyse if their average AQI is significantly better compared to states with lower EV adoption

state	EV Count	AvgAQI
Uttar Pradesh	921471	126.42
Maharashtra	650823	105.33
Karnataka	480191	62.67
Tamil Nadu	329634	67.76
Rajasthan	305605	127.99

State	EV count	Avg AQI
Jharkhand	67695	164.94
Himachal Pradesh	4963	160.26
Chandigarh	17888	141.56
Tripura	22631	126.70
Punjab	100630	117.85
West Bengal	98668	114.19
Manipur	1394	100.93
Uttarakhand	55704	87.90
Nagaland	84	80.46
Jammu and Kashmir	30785	69.50
Meghalaya	1175	62.73
Andaman and Nicobar Islands	165	57.71
Puducherry	10136	56.51
Arunachal Pradesh	195	54.49
Sikkim	29	53.69
Mizoram	1095	47.25