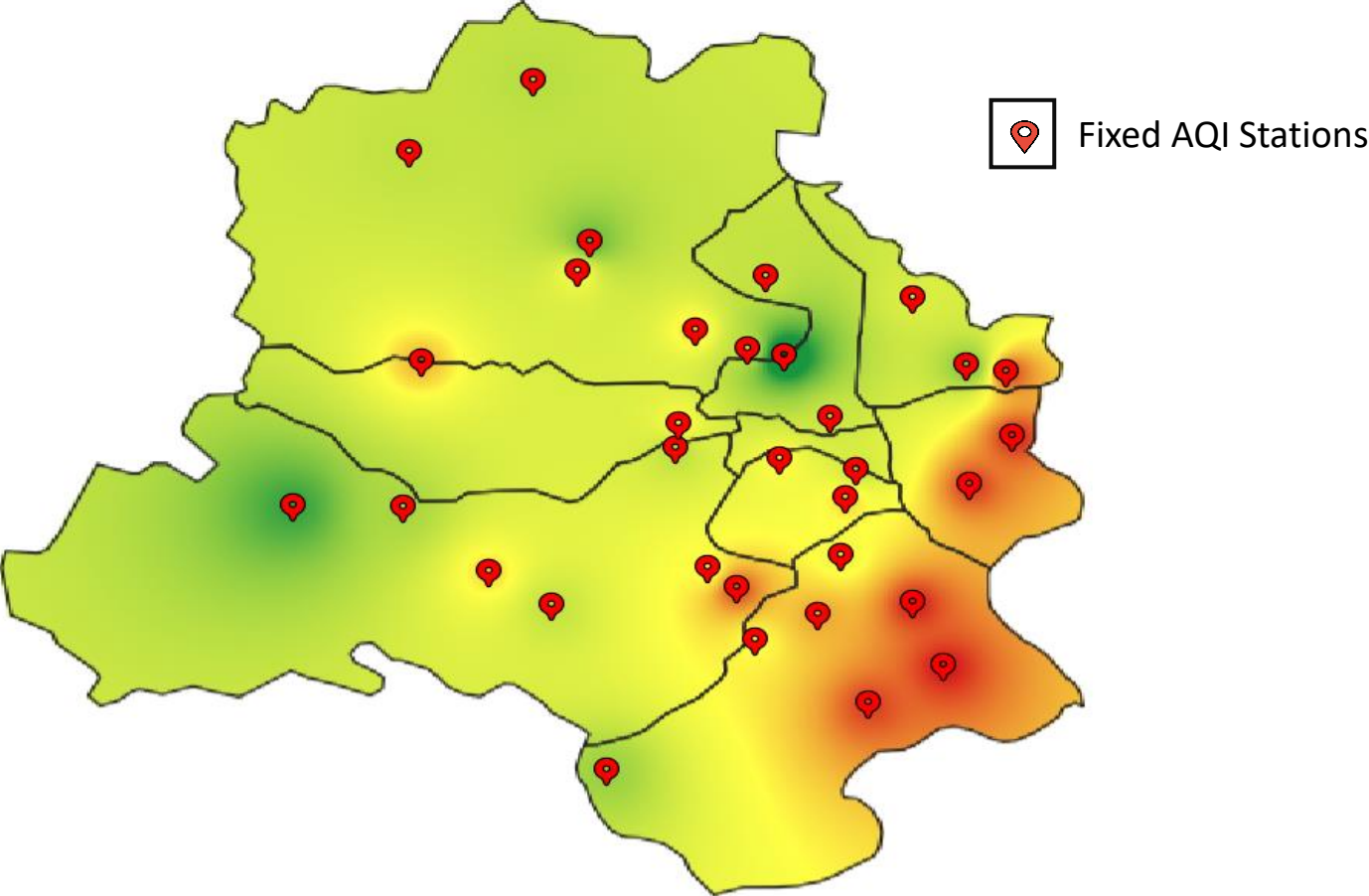
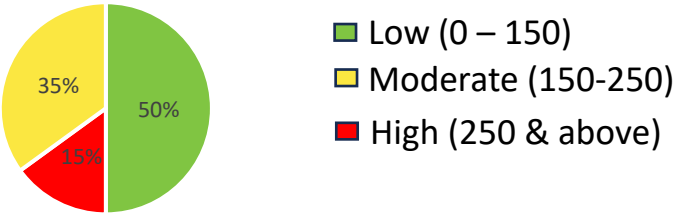


TITLE : POLLUTION HOTSPOTS – A HEAT MAP OF DELHI’S AIR QUALITY AND MAPPING FIXED STATIONS

MAP DESCRIPTION AND ANALYSIS



AQI LEVELS



INTRODUCTION

**Air Quality Index (AQI)** is a **critical indicator** of air pollution levels, impacting public health and the environment. In **Delhi**, where **industrialization and urbanization are rapid**, **monitoring AQI** is essential for assessing air quality and implementing **necessary interventions**. This **project aims to create a heat map** displaying low, moderate, and high AQI values across Delhi, alongside the locations of **fixed monitoring stations**. The heat map will visually represent air quality variations, helping stakeholders identify pollution hotspots and develop targeted strategies to improve air quality.

MAP DESCRIPTION

The **heat map** will visually categorize areas based on AQI values, using a **color gradient** to represent **low (green)**, **moderate (yellow)**, and **high (red)** pollution levels. The map will also display the locations of **fixed AQI monitoring stations**, which will be marked with **symbol**. This dual representation will facilitate an understanding of the relationship between industrial activities and air quality. By integrating these elements, the map will serve as a powerful tool **for policymakers, researchers, and the public** to visualize and address air quality issues in Delhi.

METHODOLOGY

- Gathered AQI data from fixed monitoring stations from October 2023 to January 2024, organizing it in a spreadsheet.
- Used mapping software like QGIS to create a base map and generate a heat map that visually represents AQI levels, marking fixed station locations. Then prepared the final map and a report summarizing findings and recommendations.



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