Data scrono experydo mentod to smart

- 1) Potoblem Definition

 * 1 oraffic congestion carross full crash,
 and increased pollution

 * The goal is to describe an A!

 Powered traffic management system

 that optimises teaffic flow and reduce

 cognestion.
- 2) Loate collection:

 Source: Cyps, sensons, traffic cameras,

 Lot enabled signals, weather reports,

 and historical traffic data

 Types of Data: Real time vehicle coun
 - roud occupancy, speed Paltoins etc.

 3) voata cleaning & Proceeding:

 * Handlery mining values
 - * Remaring duplicates and outliers

 A) Exploratory pata Analyin.
 - * Identifying peak congestion hours lung stertistical analysis.

* verializing traffer patterns temough heatmaps and graphs 5) Model building & Training machine louining phyorithms: * Time-series forcasting models to predict matter flow. * computer ichston (crinis): for analyzing traffic camera footage. * Reinforcement learning for adaptive traffic signal control. 6) Model Evalution & optimization Performance metals: Accuracy, maan absolute error, +1 slore you detection 1) Deployment & monitoring. * poploying the model on cloud-based platforms for real-time Predections. * Integrating with city traffic management systems for automated signal control