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this data structure compane the very information we need to analyze time traffic conditions including vehicle counts average speed queue-lengths and pedestrian exassings. The intersection and timestamp filed will help us associate the data with specific bandiations time periods.

Algorithm design:

on the collected data we can develop the-

vidoxithm: 180 tic gidual obtimisation.

ontbut: obtimized tractic sidual time.

fox each intensaction:

easculate the optimal signal time.

* +xoffic gouziti.

* THETE IGUETH.

* pedestrain crossing.

* всок ротя вонылог.

Adjust the traffic signal timing.

IP manual adjustment is кедиіхед to update the

EISC IF

кеника the optimized signal timing.

The onlower the optimal signal timings box eachintersection and adjust the signals accordingly.
The allower the optimal signal timings box eachthe algorith will available the seal-time traffic datathe algorith will available the seal-time traffic data-

Imprementation:

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* 1806 bic goto collection:

this class will be sesponsible for gathering storing it in traffic data structure.

+xaffic data optimizen:

signal optimization" algorithm to analyze the traffic data and compute the optimal signal timings -

ixa Étic eiduai coutrainer:

signals at which traffic. updating the timings pased on the aptimized parameters provided by
the traffic signal controller.

exaftic woulfakind gosppagny:

that can sestioned to changing tractic battern in combrehensing these combonents to exected a the sidual of timisation effication that the siduals the veeded. The jana abblication tractic manages and citit officals to manifox traction the close browing mill a mean interface for

nienlisation and schorting:

tine chants displaying the signal excletens for each intersection overtime.

bentoquarce wetricz:

Hen bosmance indicatoss.

Ban chants graphs allowing the improvements-

User interaction:

obtimisation shatew.

offical to interfoce mith trablic siduals

or the brimarh interfoce bor trablic wounders and

the "trablic monitoring postpoords. Mill serve-

real - time monitoring:

intersection.

wortnor siduor timind orginetiment:

Ability for traffic managens to manually overside the optimized signal at each. if neededwith changes respected in the system.

bentosmouce metsice our sebostiud:

Historical gato and track availtsis:

segnetion. and onevall trackic trom obticional.

bentormance ingicators. such as anomale mait items

ourphooners and reborts spaming the Keil-

optimisation.

Applity to view and analyze histoxical txa
optimisation.

By providing a userpriendly and informtive intersignal optimization system.