**Two-way vehicle counting**

* Ticket system IDs in the format {id}D{date}N{incremental\_number} (e.g., 27D28082025N1, 27D28082025N2 and so on.)
* AI model vehicle numbers assigned sequentially

**Pros:**

* Simple (KISS principle) – easy to implement and maintain
* Ticket system resets daily, avoiding cumulative errors
* Discrepancies can be detected with simple database queries using timestamps
* Totals from both sources can be easily compared for an accurate overview
* Each vehicle has a unique ID in both systems, supporting audits and debugging

**Cons:**

* Dependence on accurate timestamps – misalignment may show false discrepancies; can be overcome by adding a window of correction to minimize any misalignment
* AI may miss or double-count vehicles, affecting comparisons
* Discrepancy detection requires queries; automated alerts may need to be setup using scripts

**Implementation:**

* Store ticket IDs and AI numbers with timestamps
* Compare totals per day
* Investigate mismatches by timestamps
* Maintain accurate daily counts