**Meeting Minutes**

**Date:** 31/03/25

**Time:** 18:10-18:35

**Location:** Microsoft Teams

**Team-Leader:** Hanzala bin Tariq (23056605)

**Team-Speaker:** Muhammad Ejaz (23057056)

**Attendees:**

* Syed Saram Afaq (23040215)
* Huzaifa Shoukat (23056606)
* Muhammad Ali Hamza (23056614)
* George Kepgang Deumo (22015168)
* Humaid Bodiyat (21008213)

**Call to Order:**

Syed Saram Afaq called the meeting, and it started at 18:10

**Agenda**

**1. Integrating Machine Learning & Visualizing with Traffic Light**

**Discussion Summary:**

* Anomaly detection using ML model integration.
* Flagged data visual indications (red, yellow, green).

**Decisions Made:**

* The temporary agreement is that the ML model will then run from the backend, but at periodic intervals.
* The API must return a "status" field with the sensor data passed
* Colour code the dashboard by this flag

**Individual Progress & Updates**

* **Hanzala bin Tariq:** An integrated ML model for backend data processing has been designed
* **Muhammad Ejaz:** Status field added in data responses.
* **Syed Saram Afaq:** Contributed to testing output of different sensor ranges with ML
* **Huzaifa Shoukat:** The dashboard we use to test the anomalies and trigger alerts.
* **Muhammad Ali Hamza:** Worked with Plotly to build color-coded data points
* **George Kepgang Deumo:** Real-time stream, update with flag status.
* **Humaid Bodiyat:** Designed visual layout for alert banner

**Upcoming Tasks**

|  |
| --- |
| **Hanzala bin Tariq:** Optimisation of ML outputs using confidence thresholds |
| **Muhammad Ejaz:** Alert API route to handle anomalies |
| **Syed Saram Afaq:** ML edge case verification vs sensor data |
| **Huzaifa Shoukat:** Write the logic for testing alert in dashboard |
| **Muhammad Ali Hamza:** Animated traffic signal indicators |
| **George Kepgang Deumo:** Optimize socket streaming with anomaly push |
| **Humaid Bodiyat:** Tooltip data for flagged points |