Scout Analytics Platform - System Architecture

Pi 5 Edge Device #1
Pi 5 Edge Device #2
Pi 5 Edge Device #N

Supabase Storage
scout-ingest

Bronze Layer
Raw JSON Data

Silver Layer
Cleaned &
Normalized

Gold Layer
Business Aggregates

Platinum Layer
ML Features &
Exports

Monitoring & Alerts
(Data Quality)

Scout Dashboard
(Executive Analytics)

Lovable App
(External React)

Apache Superset
(BI Dashboards)

Analytics API
(Edge Functions)

Dataset Exports
CSV | Parquet | JSON

Legend
- Edge Devices
- Storage
- Bronze Layer
- Silver Layer
- Gold Layer
- Platinum Layer
- Applications
- Services