Inputs

Market Trends
(City-wide Demand)

Time Context
(Day, Week, Season)

Uber API Data (Dummy)
(Simulated Trips & Earnings)

Weather Data
(Temp, Rain, Wind)

Geo Data
(Zones, Traffic, Distance)

Events & Holidays
(Local Festivals, Sports)

User Targets & Preferences
(Income Floor, Hours, Zones)

Steady System

Ingestion & Connectors

Operational DB

Feature Store
(Standardized & Derived Features)

Forecasting Engine

Insights Engine

Steadiness Index Engine

Recommendation Engine

constraints/preferences

All engines read from the Feature Store, which aggregates and derives features from ALL inputs (ingested & stored).

Outputs

Internal

Forecast Data Archive

Volatility Metrics

Anonymized Trends

User-Facing

Dashboard
(Forecast + CI + Index)

Insights Screen
(Trends & Patterns)

Planner
(Personalized Recommendations)

Inputs → Ingestion → DB → Feature Store → Engines
This implies every engine has access to all inputs
without drawing every arrow explicitly.