$[Field Sensors] \rightarrow [Edge Device] \rightarrow [Cloud Gateway] \rightarrow [Al Processor] \rightarrow [Farm Dashboard]$ 

 $\uparrow$   $\downarrow$   $\downarrow$   $\downarrow$ 

Real-time Data Pre- Feature Eng. Prediction Visualized KPIs

Monitoring processing & Scaling & Insights & Alerts