Original Company Overview

Halytech – Smart AI Solutions for a Connected World

About Us

Halytech is a technology company that builds AI powered systems to help businesses collect, understand, and use their data more effectively. We focus on creating intelligent, automated, and easy to use tools that connect devices, analyze information, and help companies make smarter decisions in real time.

Our goal is to make Artificial Intelligence accessible for every organization from small businesses to large industries through reliable, flexible, and secure solutions.

Our Main Services

1. AI Data Analytics

We help organizations use AI to turn raw data into clear insights. Our systems collect data from different sources and use machine learning to detect patterns, predict trends, and support better decision making.

2. Automation and Smart Monitoring

Halytech builds AI systems that automatically track and control operations such as energy use, machine performance, or environmental conditions and send alerts when something unusual happens.

3. Cloud and IoT Integration

Our technology connects devices and sensors to the cloud, allowing companies to monitor data in real time from anywhere. This helps businesses work more efficiently and reduces downtime.

4. Custom AI Solutions

We design tailor made AI systems for specific needs including predictive maintenance, customer analytics, intelligent dashboards, and workflow automation.

Why Choose Halytech

Simple and Reliable: Tools designed to be easy to use.

Real Time Insights: Instant results that support fast decisions.

Secure and Scalable: Systems that grow with your business while protecting data.

Expert Support: End to end assistance from our AI specialists.

Our Vision

We believe that AI should empower people, improve productivity, and support a smarter and more connected world.

Headquarters: Sydney, Australia

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Detailed Product Pages

Product 1: Halytech InsightX - AI Analytics Platform

Overview:

InsightX is a cloud based analytics engine that unifies business data, performs automated ML, and delivers real time dashboards.

Key Features:

- Automated data ingestion from multiple sources

- AutoML pipeline

- Forecasting models including ARIMA, Prophet, and LSTM

- Anomaly detection

- Interactive dashboards

- Role based access control

Technical Specifications:

- Cloud runtime on AWS and GCP

- S3 compatible storage and PostgreSQL

- TensorFlow Serving and FastAPI

- Supports CSV, Parquet, JSON, MQTT, REST

Use Cases:

- Demand forecasting

- Predictive analytics

- Customer sentiment analysis

- Financial monitoring

Pricing:

Starter: 149 dollars per month

Professional: 499 dollars per month

Enterprise: Custom

Product 2: Halytech Sentinel - Intelligent Monitoring System

Overview:

Sentinel monitors assets and environments using AI based anomaly detection.

Key Features:

- IoT sensor integration

- Predictive maintenance alerts

- Energy tracking

- Environmental monitoring

Technical Specifications:

- Python and Rust edge agents

- MQTT, AMQP, WebSocket

- On device inference

- Cloud dashboards

Use Cases:

- Factory equipment health

- Smart buildings

- Storage monitoring

- Server room climate control

Pricing:

Basic: 2 dollars per device per month

Suite: 299 dollars per month

Enterprise: Custom

Product 3: Halytech FusionAPI - Unified API Layer
Overview:

FusionAPI provides REST and MQTT interfaces for integrating analytics and IoT flows.

API Types:

- REST

- Webhooks

- MQTT

Example Endpoints:

GET /api/v1/devices

POST /api/v1/predict

POST /api/v1/alerts/subscribe

Supported Model Types:

Regression, Classification, Time Series, Clustering

Technical Documentation

Architecture Overview:

Includes data ingestion, ML processing, serving layers, and security.

Data Ingestion:

- IoT via MQTT

- REST inputs

- ETL database jobs

- OAuth connectors

ML Layer:

- Kafka streaming

- Spark processing

- Airflow pipelines

- MLflow registry

- Feast feature store

Serving:

- FusionAPI gateway

- Model inference microservices

- Grafana dashboards

- Prometheus monitoring

Security:

- AES 256 encryption

- TLS 1.3

- Data masking

- SOC 2 audit logs

FAQ Page

Q1: Does Halytech store customer data?

A: Yes encrypted in the cloud.

Q2: Can IoT sensors be connected?

A: Yes through MQTT, HTTP, or Modbus.

Q3: Do users need data science skills?

A: No.

Q4: Can models be retrained?

A: Yes via AutoML.

Q5: How fast are alerts?

A: Low latency edge inference.

Troubleshooting Guide

Issue 1: Data missing on dashboard

Check device authentication, API key, ingestion service.

Issue 2: Prediction errors

Check model status, input schema, redeploy.

Issue 3: Alerts not firing

Check thresholds, webhook, sensitivity settings.

Extended About Us

Halytech is a global AI and IoT solutions provider offering automation, analytics, and scalable device networks.

Industries:

Manufacturing, Healthcare, Energy, Retail, Agriculture.

Value:

Instant data interpretation, scalable IoT systems, predictive analytics, and enterprise security.