AI FOR ANOMALY DETECTION

SoftServe employs AI along with ML, computer vision, IoT, data science, and big data analytics to help energy companies innovate at scale, achieve operational efficiency, and gain a competitive edge. Our solutions predict risk, detect anomalies at earlier stages, and proactively plan maintenance. This improves asset lifetime and ensures optimal cost of operations.

WHERE IT FITS

Offshore and onshore production sites

Oil and gas facilities

Power plants

Storage depots

Compressor and pump stations

Oil and gas pipelines

HOW IT WORKS

TWO APPROACHES TO ANOMALY DETECTION

powered by Machine Learning

1
3D MAPPING

2
IMAGE / VIDEO ACQUISITION AND LOCALIZATION

3
IMAGE / VIDEO ENHANCEMENT
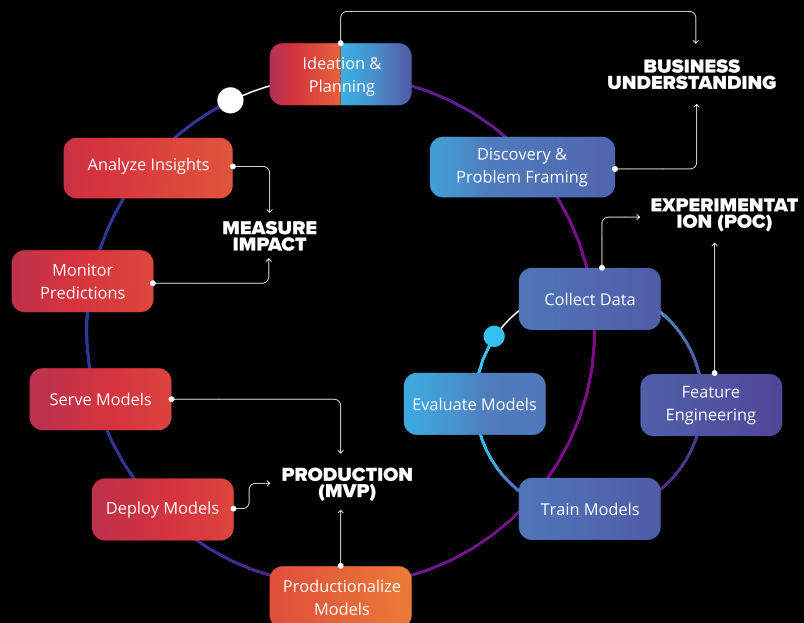
4
IMAGE / VIDEO ANALYSIS

5
RESULTS AGGREGATION

6
PREDICTIVE MODELLING AND MAINTENENCE

based on IoT data

Ideation & Planning

BUSINESS UNDERSTANDING

Discovery & Problem Framing

Analyze Insights

EXPERIMENTATION (POC)

MEASURE IMPACT

Monitor Predictions

Collect Data

Serve Models

Evaluate Models

Feature Engineering

PRODUCTION (MVP)

Deploy Models

Train Models

Productionalize Models

softserve

BUSINESS VALUE

Decreased expenses
on defect management

Increased
asset lifetime

Increased
employee safety

Lower risk
of human error

Reduced risk of oil and
gas facility downtime

More effective
budget planning

Discover how we've used AI to empower
our client's success.

Watch the webinar to learn how AI and
ML scale in the cloud and improve field
performance.

WHY SOFTSERVE

SoftServe is the advisor and provider that helps energy
companies (re)identify differentiation through cutting-
edge technology such as IoT, AI, ML, AR, Big Data, and
more. SoftServe partners with SMBs and Fortune Global
500 enterprises to deliver secure solutions that enhance
information management and boost operational safety.

Our solutions optimize upstream, midstream, and
downstream operations. From better decisions on oil and
gas well locations to better yields in production—we help
energy companies transform their businesses to drive
efficiency and cost savings.

28 YEARS
of award-winning service

65
Our net promoter score leads
the industry

10,000+
associates worldwide

40+
offices globally

15+
industry-leading brands trust in
SoftServe

30%
Organic CAGR

OSDU
Open Subsurface Data Universe

aws
PARTNER
Premier Tier
Services

Premier Partner
Google Cloud

salesforce
PARTNER

Gold
Microsoft
Partner
Microsoft

WE SERVE

OIL AND GAS
COMPANIES

INDEPENDENT
SOFTWARE VENDORS
(ISVS)

SOLAR & WIND
COMPANIES

UTILITIES

FOCUS AREAS:

- **AI-empowered** exploration

- **Data navigation** platform and unstructured
  data ingestion

- **Autonomous** control

- **Assets monitoring** and predictive maintenance

- **Digital HSE** & connected workforce

- **AI** for visual inspection