

Webinar on Artificial Intelligence(AI) for Oil and Gas Industries Safety and Productivity



Objectives and Overview

Objective: From today webinar, all participants will get information about Artificial Intelligence(AI) applications in Oil and Gas industries

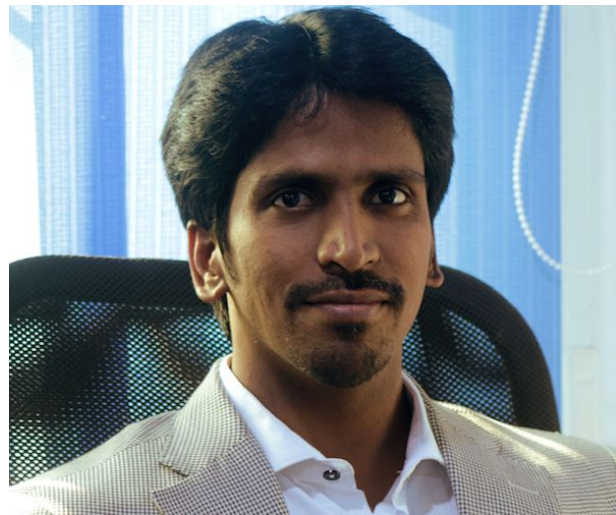
1. Objective & Overview
2. Introduction to Industry 4.0 and AI
3. Industry pain points addressed
4. Proposed Solution & Features
5. Demo & Success Stories
6. Solution Outcome & ROI
7. Summary & Open to Discussion



About the Speaker

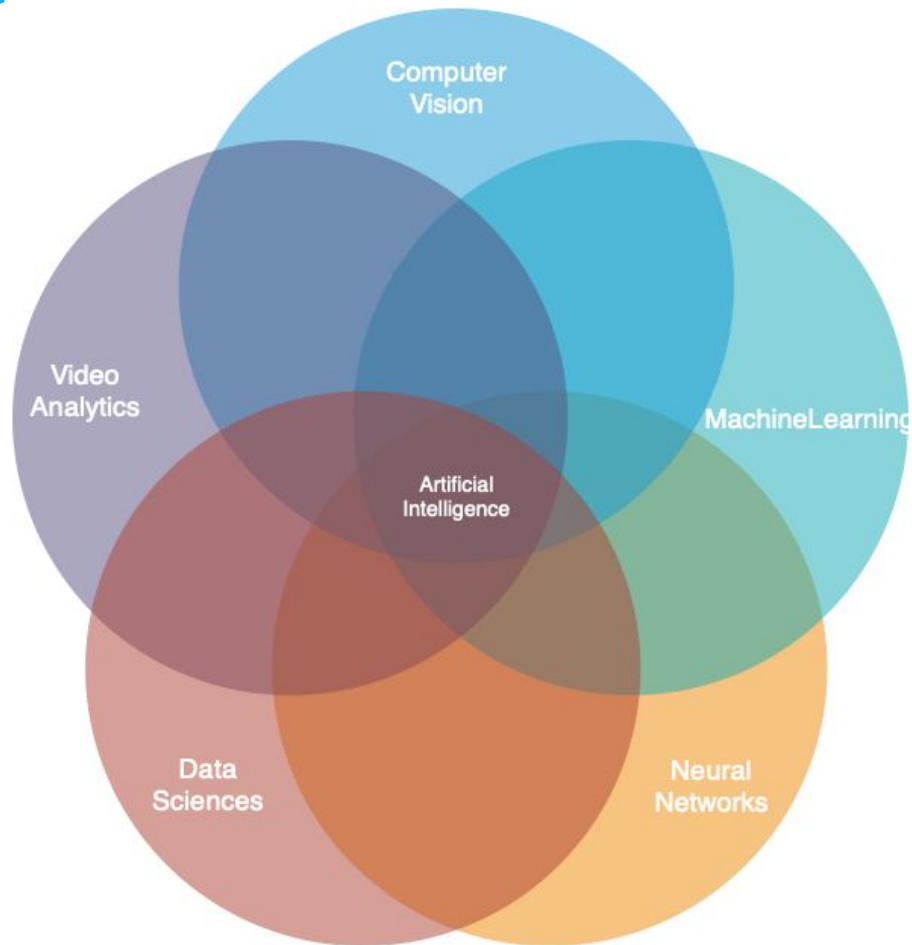
Balaji D Loganathan

- Founder of SurveilLens.AI and Co-Founder of Spritle software
- 18+ years of experience in IT and software development
- Worked at United Nations, Switzerland
- MS in Computer Science from Melbourne, Australia
- B.Engg from Annamalai University



Fundamentals of Artificial Intelligence

- 70+ Years research in AI since 1950s
 - Making Machines to compliment Humans to monitor all micro stages/ steps inside your operations
 - AI is the engine powering Industry 4.0
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- What will happen if we make regular CCTV cameras at your factory AI enabled?



The Real Industry 4.0 Solution

1

Artificial Intelligence & Machine Learning

Building the brains that had to make meaning of all the input and evolve in the process

2

Machine Vision & Video Analytics

Being the Eyes of the digital reality, we create magic, with just video frames as the input

3

Industrial Internet Of Things (IIoT)

Sensors help us Cover the ground with greater accuracy, easier implementation, and reduced costs

4

PLC Integration & Robotics

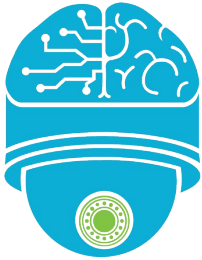
Observe every minute irregularities in the regular operation and prevent unwanted losses.

Industry Pain Points Addressed

- Untraceable Machine Efficiency/ Performance of Assets
- Untrackable Human Activities- SOP violations
- People, Cranes and Forklifts Movement
- Unquantify Manual efforts & Performance
- Machinery Downtime analytics & Stoppage- Delay and wait time
- Leakage or Spillage Unidentifiable
- Material Movement & Blindspots in continuous process



Introduction to



SURVEILLENS.AI

Our Clients

1. Larsen & Toubro
2. TVS Sundaram Fasteners
3. RANE TRW
4. Samsung Electronics
5. Ramco Cements
6. Oil & Gas company in India

Demo Videos and Success Stories



Proposed Solutions & Features

1

Safety

- PPE & Man movement
- Spillage & Leakage
- Material Transfer SOP violations
- Smoke, Spark & Fire detection and response
- Truck movement and speeding
- Crane/Forklift events monitoring

2

Productivity

- Machine stoppage
- Stoppage
- OEE
- Downtime
- Material movement
- Bottleneck and delays

3

Security

- Restricted or critical areas monitoring
- People movement during state of machine or Time of day
- Unauthorized people or truck movement
- Assets movement unauthorized
- Theft and vandalism detection and alert
- Undefined suspicious activities of people and trucks

Solution Outcome & Return on Investment

1

Increase your

- Production output
- Visibility of each asset OEE
- PPE compliance
- SOP Compliance
- Safety of people
- Security of assets & premises

2

Reduce your

- Losses
- Wastage
- Downtime
- SOP Violations
- Critical events
- Costs & expenses

3

Detection and Response system

- Identify any violation or deviance in real-time and response via:
- PLC integration to communicate with machinery
- Sound alarm or Siren
- Mobile push Notifications
- Andon Display Boards

Summary and Open to Discussion

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