



INDUSTRIAL VISION INTELLIGENCE

The AI intelligence layer for factories.

CountAI is building a new category — **Industrial Vision Intelligence**: AI that doesn't just see the factory, it understands it. Surface inspection is our beachhead, proven by flagship Knit-I at **30+ customers in 7 countries**.

MISSION & VISION

VISION

To be the AI intelligence layer of the world's factories — starting in textiles, expanding into every manufacturing vertical where defects, waste and inefficiency cost the planet.

MISSION

To make surface inspection a measurement, not a guess — a standard factories can measure their quality against.

OUR STORY

Founded in 2022 by IIT Madras engineers to bring AI vision to the factories the cloud playbook ignored — hot, dust-filled, hard to digitise. Four years on, our systems run in seven countries, and surface inspection has become our forte.



— WHAT WE DO

We turn factory quality from a guess into a measurement — at every machine, in real time.

Surface inspection is the hardest and most universal quality problem in manufacturing, and for decades it's been done by human eyes — slow, sampled, inconsistent. CountAI automates it: our AI sees every product as it's made, catches the defect at the machine, and turns quality data into an asset the factory can act on.

MEASURED, NOT SAMPLED**Every metre, inspected**

Manual checks are sampled and late. We inspect 100% of output, continuously.

REAL-TIME, NOT TOO LATE**Caught at the machine**

Defects flagged the instant they form — before the roll is made or the batch ships.

AN ASSET, NOT A COST**Quality becomes currency**

Certified quality earns a price premium — customers begin demanding it by name.

— WHAT MAKES US UNIQUE

We engineered the whole stack — from the photon to the model.

01 · CAPTURE**Camera & rugged hardware**

Our own imaging hardware — survives heat, dust and power swings, and compact enough to embed into OEM machines.

**02 · INFERENCE****Edge AI, real-time**

Inference runs inside the machine, not the cloud. Intel-validated, real-time, no connectivity needed.

**03 · ENGINE****Self-improving engine**

Every deployment feeds a central engine that retrains and ships better models back to the edge — automatically.

The data flywheel: every install grows a dataset nobody can buy — making every model smarter.

— FLAGSHIP · KNIT-I — AND BEYOND

Knit-I tackles one of the hardest surfaces in manufacturing — knitted fabric at full speed.

- ✓ **A surface in motion**
Fabric that stretches and moves continuously — no static frame.
- ✓ **Sub-millimetre defects**
Catches a single dropped stitch or needle line, live.
- ✓ **Endless variety**
Lycra blends, jet-black fabric, new patterns — edge cases never end.
- ✓ **Brutal conditions**
Built to keep working through heat, dust, vibration and flickering power.

One engine, many surfaces. The same engine extends beyond knit — each line at its own stage, from available to in pilot:

[Woven · Weave-I](#)[Print & dye · Print-I](#)[Cut pieces · Cut-I](#)[Cone & yarn · Cone-I](#)[Technical textiles · Fab-I](#)[Automotive sheet metal](#)[Glass · packaging · electronics · pharma →](#)

CREDIBILITY & TRACTION

Not a pilot story. A production story.

30+

customers

7

countries

2026

Intel Edge AI Software Excellence Award

4 yrs

on real factory floors

CASE STUDIES

Best Color

UZBEKISTAN

Fabric waste cut ~1.5% → ~0.2% in 90 days. Payback under 6 months. Scaled from a 6-machine pilot to 40 machines.

Aarti International

PUNJAB, INDIA

~80% of defects eliminated at machine level across 62+ machines.

TRUSTED ACROSS THE INDUSTRY











Colortone

Jayvishnu







STRATEGIC PRIORITIES

Where we're taking CountAI next.

01

Own surface inspection

Deepen textile leadership and extend the same engine to rigid surfaces — metal, glass, packaging, electronics.

02

Become the factory's brain

Grow Fac-AI into a connected intelligence layer linking machine vision to ERP, SAP and the wider plant.

03

Scale globally

Expand through OEM embedding and direct sales across textile and manufacturing hubs worldwide.

SUSTAINABILITY & IMPACT

Catching defects early isn't just quality — it's resource efficiency.

1.5% → 0.2%

Less fabric waste

Defect waste at Best Color within 90 days — fabric that's never scrapped.

Water · dye · energy

Resources conserved

Every metre not wasted is water, dye and energy saved, and less textile sent to landfill.

People

Workforce upskilled

Teams move from manual visual inspection to higher-value roles as the AI handles the watching.

Impact figures are calculated from defects recorded across our deployed fleet using a conservative estimation methodology, and are not yet independently audited. Effect compounds significantly as more machines are added.

LEADERSHIP

FOUNDER & CEO

Harshavardhan Thirupathi

IIT Madras (B.Tech + M.Tech). Ex-Toyota Autonomous Division, ex-Philips Healthcare. 10+ yrs in imaging & AI.

CO-FOUNDER & CTO

Venkataramanan Chockalingam

Textile & metal hardware specialist. Designed and shipped every deployed system.

CO-FOUNDER & CSO

Jaivardhan

Industrial machinery sales. Personally opened Bangladesh, Sri Lanka, Uzbekistan, Peru & Indonesia.

Advisors: Vasanth Sridhar (Co-founder, OFBusiness) · Dr. Sureshkumar (ex-Pfizer, ex-Caltech).

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