

Predictive Manufacturing

When AI Learns Your Process

Most factories plan production by experience — not by data.

Yet in weaving and process industries, even a 2% mismatch between job order and machine can cause exponential downtime.

Analyzes yarn, sizing, and loom parameters from historical runs



Trains AI models that estimate breakage probability per loom



Recommends the lowest-risk machine before production begins



In practice, this means fewer restarts and smoother planning.

Pilot data showed:

- $\geq 85\%$ prediction accuracy between AI forecast and actual stoppages
- Up to 20% reduction in rework and scheduling time

Predictive manufacturing turns uncertainty into an optimization problem — and solves it before it happens.