

B2B TORINO FASHION MATCH

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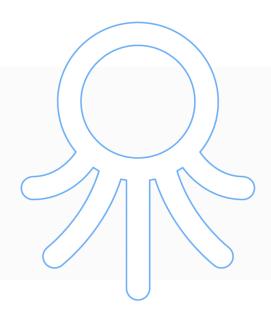




Kiwifarm Srl

11+ years of innovation and problem-solving in:

- Machine Learning
- Proof of Concept (PoC) development
- Business process optimization
- Startup and R&D support



Experience that delivers better solutions. Faster.





TRAINS

Textile Recycling supported by Artificial Intelligence in Spinning

- Funded by NODES Program (PNRR NextGenerationEU)
- In partnership with Marchi & Fildi SpA & Kiwifarm















Goal

TRAINS aims to develop a **Digital Twin** powered by **AI** to:

- Improve development of recycled yarns
- Automatically predict yarn color from input fibers















The Challenge

- Involves numerous physical trials
- Slow, costly, and resource-intensive process
- Requires expert knowledge to blend recycled fibers for target color









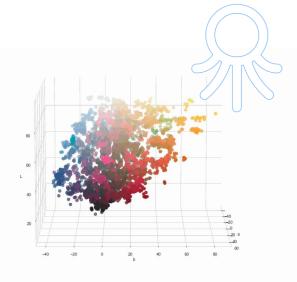






Innovation and Impact on User

- Al model learns how input fiber colors blend into final yarn tones
- Provides blending suggestions to hit color targets
- Replaces trial-and-error with data-driven predictions
- Fewer costly physical experiments
- Faster decision-making















Training & Model Performance

Developed and validated a multi-input/multi-output AI model

Fiber types used:

Synthetics: Acrylic, Polyester

Cottons: Royal Blue, Fuchsia

Achieved extremely low prediction error
Within the instrumental error margin(spectrophotometer)















From Model to Application

Not just a model but also web interface was developed

Input:

Target color

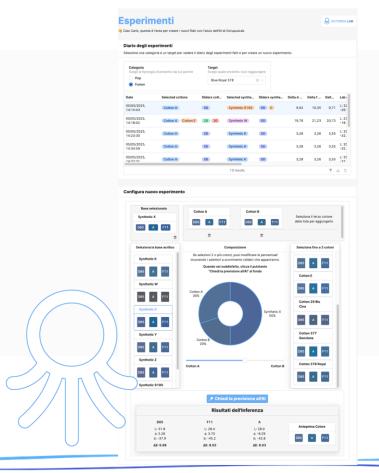
Fiber types (synthetic + cotton)

Percentage composition of each fiber

Output:

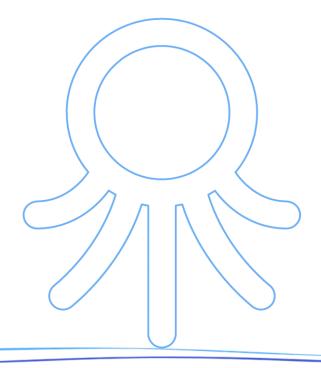
Predicted output color

Color distance from target









What is next?

- PoC first
- Blessing
- Faster cycle





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