

STUDY ON WHAT ARTIFICIAL INTELLIGENCE KNOWS IN 2025 ABOUT THE ROMANIAN BLOUSE (IA) AND HOW AI TODAY IMAGINES THE EVOLUTION OF THE ROMANIAN BLOUSE OVER THE NEXT 100 YEARS

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ABSTRACT: In an increasingly digitalized world, traditional education related to artisanal crafts, such as the creation of the Romanian blouse (*ia*) faces the challenge of reaching new generations who are ever more connected to the online environment and futuristic era.

To preserve and transmit the Romanian *ia*’s valuable art, more and more initiatives are turning to digital platforms and online workshops that provide easy access to traditional knowledge and techniques, regardless of geographical location. Online workshops allow people from all corners of the country, and even from the diaspora, to access information and demonstrations, thus eliminating many of Romania’s geographical and financial barriers.

This article presents a study based on ChatGPT’s responses to two questions about the Romanian blouse: its meaning, challenges, and future (the evolution of the *ia* over the next century), while leaving open the question: is this merely an exercise of imagination?

Keywords: Romanian blouse, Artificial Intelligence, evolution of the *ia*, symbols of the *ia*

1. INTRODUCTION

In the context in which the young generation (those currently under 30) and the digital natives are living increasingly online lives, and as a result, have less and less time for craftsmanship and manual work of any kind, it is foreseeable that in the more distant future, hand-embroidered Romanian blouses will be replaced by fully digitalized factories, small workshops and studios.

Digital education and online workshops are not only technological tools, but true bridges between the past and the future. In a world where screens are ever more present in daily life, they can become windows into tradition.

The future of the Romanian blouse (*ia*) does not lie in abandoning its identity, but in reinventing it through the means of

the present. Thus, this future is not only predictable, but the only viable path for the survival and flourishing of the Romanian blouse in the years to come. [1]

2. THE ADVANTAGES OF DIGITAL EDUCATION FOR THE ROMANIAN BLOUSE

Through detailed videos, step-by-step tutorials, and interactive materials, learners can closely observe complex embroidery techniques, types of stitches, patterns, and symbols. These resources can be accessed at any time, allowing users to review and practice until mastery is achieved.

Online learning platforms enable the creation of discussion groups, live

sessions, and direct feedback from artisans or instructors, fostering the exchange of experiences and strengthening community connections.

Digital workshops can also include elements of modern design so that tradition adapts to contemporary tastes and trends. Examples of such platforms and methods include:

- artisans and designers host online sessions on platforms such as Zoom, YouTube, or specialized traditional arts platforms, where they explain step-by-step the process of making the *ia*
- PDF guides, digital embroidery patterns, and vector designs can be made available to learners for use in their own projects
- emerging technologies allow for the simulation of the embroidery experience and 3D visualization of patterns, enhancing interactivity and understanding of the process.

The transmission of knowledge no longer depends solely on oral teaching or physical proximity to local artisans. Learners can create their own businesses for producing and selling *ii*, supported by an expanding online market. Through digital platforms, the *ia* becomes a globally recognized and appreciated cultural symbol. [2,3]

3. WHAT DOES ARTIFICIAL INTELLIGENCE (CHATGPT) KNOW ABOUT THE ROMANIAN BLOUSE

Artificial Intelligence (AI), depending on the data it has been trained on, knows quite a lot about the Romanian blouse (*ia*), especially regarding the following aspects:

1.1. History and Meaning of the *ia*

AI can identify the *ia* as a symbol of traditional Romanian culture, proudly worn across various regions of the

country.

It knows that the *ia* is a traditional garment, closely associated with femininity, identity, and the values of rural communities.

It recognizes the *ia*'s origins in folk costumes, its connections with holidays and rituals, and its evolution over time.

1.2. Structure and cut of the *ia*

AI can describe the structure of the *ia*, composed of four panels of fabric (front, back, and two sleeves), as well as its distinctive elements such as the *altiță* (decorative shoulder band), *încrêțul* (gathering stitch), and *râurile* (vertical embroidered lines).

It can differentiate between types of *ia* based on region (e.g., the *Oltenian ia*, the *Maramures ia*, or the *Bucovina ia*), identifying their specific characteristics.

1.3. Decorative motifs and symbolism

AI recognizes common motifs in Romanian blouse embroidery, such as the rhombus, wheat ear, small crosses, and floral patterns.

It also understands the symbolism of these elements, fertility, protection, prosperity, and the connection to nature and divinity.

1.4. Colors and materials

AI knows that traditional embroidery predominantly features red, black, blue, and gold, each carrying distinct cultural significance.

It can identify the materials used: cotton, linen, or silk cloth, and embroidery threads made from silk, cotton, or metallic fibers.

1.5. Social and ceremonial role

AI can explain that the *ia* is worn during religious celebrations, weddings, baptisms, and other important events, serving as a symbol of identity and cultural continuity.

1.6. The future and the digitalization of the *ia*

AI is capable of discussing the impact of modern technologies, such as automated

embroidery and the digitalization of traditional patterns. It can describe both the opportunities and risks that technology introduces in preserving this traditional craft.

1.7. Examples of AI Applications Related to the Romanian Blouse

- AI can identify and classify photographs of Romanian blouses (*ia*) based on embroidery motifs and styles
- AI algorithms can create new designs inspired by traditional motifs
- Chatbots and interactive platforms can assist in learning embroidery techniques or in understanding the symbolism of the *ia*.

AI knows only as much as the data it has been trained on and cannot authentically experience or interpret cultural meaning. It cannot replace the experience and creativity of folk artisans who carry forward the tradition of the *ia*. [4]

4. HOW AI TODAY IMAGINES THE EVOLUTION OF THE IA, IN THE NEX 100 YEARS

To evaluate what ChatGPT knows about the state of the Romanian blouse 100 years from now, I asked two questions, namely:

- **Question 1 for chatgtp: "How does the AI imagine the Romanian blouse will be in 100 years?"**

ChatGPT responded:

- AI imagines the Romanian blouse (*ia*) in 100 years as a fusion of tradition and advanced technology, preserving its cultural roots while adapting to futuristic aesthetics, materials, and functions. Here's a visionary idea into what the *ia* might become:

The Romanian Blouse in 2125: A Living Heritage Enhanced by Technology

1. Smart, Sustainable Materials

Blouses will be made from eco-friendly, bioengineered fabrics that are:

Self-cleaning, Thermoregulating (adapt to body heat), Emotion-responsive (change color or texture with mood or environment).

These materials preserve the comfort and drape of traditional linen, but with a high-tech upgrade.

2. Augmented Embroidery

Traditional motifs like rombs, spirals, and floral elements will be stitched with conductive threads or micro-LED fibers.

Patterns may light up subtly or change color in response to sound, temperature, or social settings.

Some designs might even become animated, telling digital stories or symbolizing current moods.

3. AI-Generated Custom Designs

Individuals will co-create their *ie* with AI, inputting: Heritage data (from family trees or regions), Aesthetic preferences, Symbolic intentions (e.g., for love, protection, creativity).

AI will generate a unique, meaningful embroidery pattern, blending ancient symbols with personal narratives.

4. Cultural Connectivity and Wearable Identity

Each *ia* might include a woven digital tag or QR pattern linking to: A virtual archive of the blouse's history, The artisan's story, Tutorials for embroidery, Augmented reality overlays that reveal the meaning of the motifs

5. Embedded Sensors and Health Monitoring

Discreetly embedded sensors may monitor: Heart rate, Stress levels, Posture All while looking indistinguishable from traditional stitches.

6. Virtual and Hybrid Workshops

Traditional craftsmanship will be preserved through online communities, VR workshops, and haptic training gloves, enabling people worldwide to learn and contribute to the tradition.

Romanian *ia* will no longer be only worn, they will be experienced interactively.

Aesthetic Vision

Visual Style: Organic meets digital
imagine embroidered circuits, fractal
vines, and glowing geometric lace.

Color Palette: Traditional reds, blacks,
and golds, merged with neon blues, silver
threads, and chromatic fibers.

Silhouette: The iconic shape remains,
loose, breathable, symbolic, yet refined
with high-tech elegance.

Conclusion: Tradition Reimagined, Not
Replaced

In 100 years, the *ie* will be more than just
clothing, it will be: A wearable story

A smart cultural device, A living bridge
between generations

Rather than being erased by
modernization, the *ie* will evolve through
it, continuing to embody Romanian
identity in stunning, intelligent new ways.

[5]

- **Question 2 for chatgtp: "What
would be the symbols of the
Romanian blouse 100 years from
now?"**

The Romanian Blouse 100 Years from
Now: Imagined Future Symbols

In 100 years, the symbols of the
Romanian *ia* could evolve to reflect a
world profoundly transformed by
technology, globalization, and changing
mindsets, while remaining true to its
essential function: preserving and
transmitting identity. Below are some
imaginative yet plausible symbols that
could adorn the *ie* of the future:

Future Symbols of the Romanian Blouse:

1. A pattern inspired by microcircuits,
with fine and repetitive paths,
symbolizing human connectivity and the
integration of tradition into global
networks. This motif could replace or
accompany the rhombus, expressing the
continuity of life.
Meaning: interconnected life, digital
memory, collective spirit.

2. Spiral Fractal Inspired by infinite
geometric forms found in nature and
mathematics, the fractal spiral would

signify the evolution of knowledge,
adaptability, and continuous regeneration.

Meaning: wisdom, perpetual
transformation, harmony between science
and nature.

3. A modern reinterpretation of the
“protective eye” found in many cultures.
Here, it could be composed of pixels or
optical shapes referencing sensors and
augmented reality.

Meaning: digital protection, ethical
vigilance, clarity in an information-rich
world.

4. Neural Network represented as
embroidery with fine branches, similar to
traditional *râuri* (vertical embroidered
lines), but following a logic inspired by
brain connections or AI. This could
replace the vertical lines on the sleeves.
Meaning: distributed knowledge,
collective intelligence, human - machine
connection.

5. Stylized flowers designed using
genetic algorithms or AI-generated
patterns (e.g., GANs) would preserve the
femininity of the *ie*, but in a form
combining natural aesthetics with
technology.

Meaning: augmented femininity, balance
between biology and technology,
renewable beauty.

6. Binary codes, stylized QR codes, or
barcode-like lines subtly integrated into
embroidery, functioning as elements of
digital identity—some even scannable.
Meaning: virtual identity, transparency,
connection between the individual and
digital memory.

7. A reinterpretation of the traditional
solar motif, composed of algorithmically
generated geometric shapes. This symbol
would represent the light of knowledge
and the balance between ancestral and
advanced.

Meaning: renewable energy, digitalized
spirituality, cultural rebirth. [5]

5. CONCLUSION

Looking 100 years ahead, the *ia* is imagined by chatgtp as a living heritage, smart, adaptive, and digitally enhanced, where traditional motifs coexist with futuristic symbols such as microcircuits, fractal spirals, and neural network patterns. These transformations are imagined to ensure that the *ia* remains a powerful carrier of Romanian identity, evolving rather than being erased by modernization. In essence, the future of the Romanian blouse lies not in abandoning its roots, but in reimagining them: a wearable story, a cultural device, and a living bridge between the ancestral and the technologically advanced.

From my point of view, the Romanian *ia* in 100 years will be a fascinating combination of ancestral craftsmanship and futuristic technologies, a bridge between past and future, between local and global. It will continue to express Romanian identity, beauty, and spirituality, but in a way adapted to new technological eras, while preserving the

purely human quality that defines our beautiful and unique *ia*.

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