

**The Evolution Ahead**

Imagine a workspace where designers use AI tools to simulate collections before sampling. Machines cut materials with optimal precision to reduce waste. Automation handles repetitive processes, while humans supervise, innovate, and refine.

That is **MECHAI**.

Not humans versus machines. Not blind dependence on AI. But synchronized growth.

We are not being replaced. We are being upgraded- if we choose to evolve.

**Find Your Type**

So the question is simple: Are you **Type I**, **Type II**, or evolving into **Type III**?

The real question is; how will we evolve with it? Because in the future of manufacturing, machines may do the heavy lifting and AI may do the heavy thinking.

But humans will still be responsible for asking the most important question: "Did we remember to switch the machine on?"



A short QR-based questionnaire accompanies this article to help readers reflect on their mindset toward machinery, automation, and artificial intelligence in the garments and leather industry.

It only takes a few minutes, but it might change how you see the future of manufacturing. Because the real question is not whether AI will replace us.



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# GEOMETRY IN MOTION...



**A sustainable approach to contemporary wooden heels**

- Ms.Devangana Bharadwaj  
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By reducing internal mass while maintaining outer integrity, the design balances material efficiency with stability. Its broader base further improves weight distribution, offering enhanced comfort over conventional narrow heels.

**Craftsmanship and Construction**

Working with wood introduced significant technical challenges. Achieving precise hexagonal edges required meticulous carving without compromising strength, while weight management demanded careful control of thickness and proportions. Ensuring durable bonding between the wooden base and leather upper, along with maintaining ergonomic comfort despite the rigidity of wood, required thoughtful construction. Each challenge ultimately refined the design, strengthening its structural logic and overall performance.

**F**ootwear is more than function—it is a dialogue between structure, material, and identity. In her design exploration, Ms. Devangana Bharadwaj reimagines contemporary heels through the lens of geometry, sustainability, and minimalism. The result is a striking open-toe silhouette featuring a handcrafted hexagonal wooden heel paired with a clean black leather upper.

Breaking away from conventional forms, the solid wooden heel is carved into a precise hexagon with an internal void, introducing visual intrigue while ensuring structural strength and balance.

**Inspiration: Geometry in Nature**

Inspired by the hexagon, one of nature’s most efficient and stable forms seen in honeycombs and crystalline structures, the design embodies symmetry, strength, and material efficiency. By translating this geometry into footwear, Devangana merges organic inspiration with engineered precision, creating a heel that functions like a miniature architectural structure supporting human movement.

**Sustainable Material Exploration**

A key objective of the project was to explore responsible material choices. Wood was chosen for the heel due to its biodegradability, durability, and natural aesthetic, with its grain and texture consciously highlighted rather than concealed.

The matte black leather upper is kept minimal, featuring a clean double-strap design for comfort and grip, allowing the sculptural heel to remain the focal point. The guiding philosophy is clear: Let the heel speak. Let the upper support.

**Structural Transparency as Concept**

The carved hexagonal void reflects the idea of “structural transparency”, lightness within solidity and strength without excess.



**Sustainability Beyond Material**

This footwear reflects sustainability beyond material choice, emphasizing longevity and timeless design.

Through durability, geometric efficiency, and a slow fashion approach, it moves away from fleeting trends toward enduring value.

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**A Statement of Strength**

Designed for individuals who value meaningful statement pieces, the heel embodies strength, stability, and refined boldness. It seamlessly suits semi-formal settings, exhibitions, and contemporary styling, where fashion meets art and architecture.