

Thematic Coding Framework (Gioia Data Structure)

Note: All quotes are anonymized and drawn from 30 in-depth educator interviews.

Aggregate Dimension (1st Order)	2nd-Order Themes	1st-Order Concepts (Representative Anonymized Quotes)
Reconfiguration of Creative Agency	Delegating Technical Execution, Preserving Ideation	<i>"Educators can adopt a scaffolded co-creation model where AI handles technical tasks such as auto-editing and asset generation while students focus on ideation and cultural contextualization" (P1).</i>
		<i>"Media students must be trained to manually draft initial blueprints for every project or research study using only pen and paper... AI should only be consulted after the entire plan is fully developed by hand" (P15).</i>
Reconfiguration of Creative Agency	Institutional Guardrails & Human Ownership	<i>"Institutions prohibit AI usage for ideation and conceptualization, restricting implementation to human-supervised execution stages to safeguard creative autonomy" (P23).</i>
		<i>"Academic institutions must restrict AI to supporting human-developed concepts, preserving creative and analytical domains for organic cognition" (P26).</i>
Reconfiguration of Creative Agency	Critical Evaluation & Reflective Practice	<i>"Students who critiqued AI outputs retained 30% more creative autonomy than those who accepted suggestions uncritically" (P2).</i>
		<i>"Mandatory pre-AI intention statements maintained creative autonomy in 83% of cases" (P3).</i>
		<i>"Requiring students to draft a human manifesto of three non-negotiable rules to armor-plate their story before any student touches AI" (P10).</i>
Reconfiguration of Creative Agency	Contesting Algorithmic Homogenization	<i>"AI is a pen, not a prophet. It cannot smell the za'atar in a souk or feel the weight of a protest sign" (P10).</i>
		<i>"If an AI improves your work by stripping out</i>

		<i>your culture, it is not a tool but a weapon. Fight back" (P9).</i>
Encouraging Experimentation & Critical Engagement	Constraining AI to Sustain Cognitive Friction	<i>"Preserving deliberate cognitive friction through constrained AI usage sustains the productive struggle essential for creativity" (P27).</i> <i>"AI's endless iterations can drown students in options, so constrained challenges are imposed—such as only five AI generations per project" (P8).</i> <i>"The 70/30 rule where AI can generate only 70% of any project" (P3).</i>
Encouraging Experimentation & Critical Engagement	Pushing Beyond AI-Generated Solutions	<i>"Requiring students to use AI to generate three solutions and then invent a fourth without AI... teaches that creativity is not just choosing from options but inventing new paths" (P6).</i> <i>"Countering AI over-reliance with 'imperfection assignments' requiring deliberate flaws in AI-assisted work" (P4).</i> <i>"An AI-generated animation was technically perfect but a student's hand-drawn version made the class weep—that is the power of human imperfection" (P2).</i>
Encouraging Experimentation & Critical Engagement	Addressing Cognitive Complacency	<i>"Over-reliance on AI tools can seriously stifle students' critical thinking and creativity" (P15).</i> <i>"62% of students settle for the first technically perfect output" (P4).</i> <i>"Students using AI design tools produced 30% less original work than peers using analog methods" (P1).</i>
Ethical & Equity Challenges	Cultural Bias & Algorithmic Erasure	<i>"Dataset bias constitutes the most pervasive ethical threat, systematically generating reductive representations of Arab identities, particularly in depictions of women as uniformly veiled" (P27).</i> <i>"Most AI tools see our cultures as deviations... a design app that calls Arabic calligraphy 'cluttered'" (P9).</i>

		<i>"AI corrects the warm undertones of Middle Eastern skin to cooler hues, erasing cultural authenticity" (P11).</i>
Ethical & Equity Challenges	Localized Retraining & Decolonizing AI	<i>"We partner with local tech groups to retrain tools on Malaysian datasets including wayang kulit shadows, Manglish slang, and Kelantanese batik" (P13).</i> <i>"Training an AI model on Palestinian tatreez patterns and Levantine folk music scales... suddenly students saw their heritage reflected rather than erased" (P9).</i> <i>"Students who manually annotate emotional nuances the algorithms miss reduced cultural misrepresentation by 65%" (P3).</i>
Ethical & Equity Challenges	Data Sovereignty & Privacy Exploitation	<i>"Commercial AI tools quietly claim copyright over student work fed into their systems... academic colonialism" (P28).</i> <i>"AI-generated content circumvents plagiarism detection systems, enabling systematic fraud" (P23).</i>
Ethical & Equity Challenges	Socioeconomic Disparity & Equitable Access	<i>"High-end tools are inaccessible to many... AI risks widening gaps if only the privileged can afford premium AI features" (P11).</i> <i>"Inequality of opportunity among students due to their economic disparity, ranging from affluence to poverty" (P20).</i> <i>"In rural Mafraq, students record oral histories on old smartphones" (P10).</i> <i>"Mobile AI Literacy Caravans deliver context-adapted tools to remote communities" (P27).</i> <i>"Rural students using free AI apps on low-res phones achieved a 40% confidence boost in marginalized creators" (P13, citing UNESCO).</i>

