AI Unveiled

AI Unveiled:

From Techno Bias to Solutions Within Education and Beyond

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Cambridge
Scholars
Publishing

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This book first published 2026

Cambridge Scholars Publishing

Lady Stephenson Library, Newcastle upon Tyne, NE6 2PA, UK

British Library Cataloguing in Publication Data
A catalogue record for this book is available from the British Library

ISBN: 978-1-0364-7150-7
ISBN (Ebook): 978-1-0364-7151-4

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CHRONOLOGY OF AI IN THE SCHOOL AND COLLEGE SYSTEM

A comprehensive timeline below traces the evolution of Artificial Intelligence (AI) in education from its conceptual roots to the present. This chronology situates AI within the larger historical context of the United States Civil Rights Movement, racial capitalism, and the continuing struggle for educational equity. By mapping critical milestones in both technology and social justice, it frames AI as part of the ongoing human fight for equality, representation, and liberation.

1950s–1970s: The Early Foundations of AI and Desegregation

1954 – Brown v. Board of Education: The U.S. Supreme Court declares racial segregation in public schools unconstitutional, launching a new era in the national conversation about equal access to education. This landmark decision later echoes in debates about digital and algorithmic segregation in the AI age.

1956 – The Birth of Artificial Intelligence: The Dartmouth Conference formally establishes AI as a research field. Scientists imagine machines that could "think," setting the foundation for intelligent computation.

1960s – Computer-Assisted Learning (CAL): The Programmed Logic for Automatic Teaching Operations (*PLATO*) system at the University of Illinois pioneers interactive learning and automated feedback—precursors to AI-driven adaptive instruction.

1964–1968 – Legislative Momentum: The Civil Rights Act, Voting Rights Act, and Fair Housing Act expand opportunities for historically marginalized groups. Yet, inequitable access to emerging educational technology persists, laying the groundwork for future "digital divides."

1970s – The Promise of Individualized Learning: AI research broadens to include machine tutoring in math and reading. Early interest in personalized instruction parallels desegregation-era goals of meeting diverse students' learning needs.

1980s: Intelligent Tutoring Systems and Post–Civil Rights Realities

1980s – The Rise of ITS: Intelligent Tutoring Systems (ITS) gain attention for their ability to personalize instruction through student modeling and adaptive feedback. The *Socratic System* and *Andes Physics Tutor* represent pioneering examples.

1983 – SCHOLAR: One of the first dialogue-based ITS programs teaches geography through question-and-answer interactions, demonstrating AI's pedagogical potential.

Civil-Rights Context: Despite legal desegregation, unequal funding and resource allocation leave many Black and low-income schools without access to new computing technologies. The "digital divide" begins to mirror the racial divides of the pre-Brown era.

1990s: Adaptive Learning, Affirmative Action, and the Digital Divide

1990s – The Internet Era: With widespread internet connectivity, AI-enhanced learning expands rapidly. *Carnegie Learning* (founded 1998) integrates cognitive models and AI to personalize math instruction—ushering in the age of data-driven pedagogy.

1994 – Multimedia and Virtual Classrooms: Early online classrooms appear, but access remains stratified by geography and wealth.

1995–1996 – Affirmative Action Challenges: Cases such as *Hopwood v. Texas* intensify debates over fairness in higher education admissions, foreshadowing contemporary concerns about algorithmic bias in AI-assisted selection systems.

2000s: Data-Driven Education, Accountability, and New Inequities

2000–2005 – Learning Management Systems: Platforms like *Blackboard*, *Moodle*, and *Desire2Learn* digitize classroom instruction, laying the groundwork for later AI integration.

2001 – No Child Left Behind Act (NCLB): Federal policy mandates data-based accountability, leading schools to rely on performance analytics—a precursor to AI-driven educational monitoring.

2008 – Knewton: One of the first large-scale adaptive learning systems uses AI to customize instruction in real time.

Equity Implications: While data-driven accountability aims to standardize success, under-resourced schools—disproportionately Black and Latino—bear punitive outcomes. NCLB becomes a cautionary tale for AI's role in reinforcing inequality through algorithmic evaluation.

2010s: The Mainstreaming of AI in Education

2011 – IBM Watson and Siri: AI-powered natural-language tools redefine how students access information, inspiring educational chatbots and tutoring assistants.

2014 – Jill Watson: At Georgia Tech, an AI teaching assistant answers online students' questions so naturally that many do not realize she is not human.

2015 – Automated Writing Evaluation: Tools like *Turnitin* and *Criterion* automate plagiarism detection and feedback, reshaping writing pedagogy.

2016 – ALEKS: Adaptive learning platforms in STEM subjects expand AI personalization across higher education.

2017 – Predictive Analytics: Universities deploy AI to identify "at-risk" students. Critics warn of bias that disproportionately flags students of color, reflecting the same systemic inequities civil-rights leaders once fought to dismantle.

2013–2019 – Black Lives Matter Era: The rise of BLM reignites national discussions on race, surveillance, and justice—linking algorithmic bias in education, policing, and employment to the unfinished goals of the Civil Rights Movement.

Late 2010s: Predictive Admissions and Algorithmic Accountability

2018 – AI in Admissions and Scholarships: Colleges adopt predictive models to forecast student success and financial-aid outcomes. *AdmitHub* and *Pounce* chatbots streamline communication but raise ethical concerns about data bias.

2019 – Algorithmic Bias Exposed: MIT and Stanford research demonstrates that facial-recognition algorithms misidentify darker-skinned

women at far higher rates, sparking nationwide calls for algorithmic transparency and bias auditing in academia.

2020s: The Pandemic, Ethical Reckonings, and the Techno-Civil Rights Movement

2020–2021 – Remote Learning Revolution: The COVID-19 pandemic forces global reliance on digital learning. AI systems manage proctoring, grading, and engagement—revealing both their efficiency and embedded inequities.

2020 – George Floyd and Digital Justice: The civil-rights protests following Floyd's murder extend into academia, prompting educators to examine how algorithmic surveillance in virtual classrooms perpetuates racial profiling.

2021–2023 – Critical AI Literacy: Universities introduce ethics and equity curricula, including *Techno-Transgressive Pedagogy*, connecting civil-rights history to AI accountability.

2023–Present – Generative AI: Tools like *ChatGPT*, *Claude*, and *Gemini* enter classrooms, revolutionizing writing and research while raising urgent questions about authorship, misinformation, and linguistic bias.

PREFACE

The development of artificial intelligence (AI) has been heralded as a transformative force that will reshape industries, streamline processes, and usher in a new era of technological advancement. From education to healthcare, from politics to entertainment—AI is now woven into the fabric of our everyday lives. But beneath the surface of this promise lies a more troubling reality: AI, like any tool, is created by humans—and it inevitably reflects the biases, inequities, and power structures of the society that creates it.

As a result, this book is born out of a profound concern with how AI, far from being neutral, is becoming a modern extension of historical systems of biases. Racism, sexism, neocolonialism, and other forms of discrimination that have shaped our world for centuries are now encoded in the algorithms, data sets, and technologies that govern our lives. The biases that once operated in the physical world have not disappeared in the digital age—they have simply found new forms of expression. Through this work, I aim to explore the intersection of AI, biases, and pedagogy—while offering both a critique of the current state of AI and a roadmap for its transformation.

My Journey and Motivation

As a scholar, educator, and advocate— my personal journey has shaped my perspective on issues concerning AI and history repeating itself in digital form. I have witnessed firsthand how educational systems, like so many other institutions, can both challenge and reinforce the inequalities that exist in society. Throughout my academic career, I have been deeply committed to confronting issues of systemic biases within the classroom and beyond. And when AI entered the picture, it became clear to me this was a new frontier in the struggle for equity and justice—one that demands urgent attention.

In my interactions with students, faculty, and colleagues— I've seen how AI technologies—whether in the form of automated grading, facial recognition software, or data-driven decision-making tools—have been used without consideration for their biases. These tools are often deployed under the guise of efficiency and objectivity, yet they replicate the same patterns of

exclusion and marginalization that have long plagued society. The false neutrality of AI is one of the greatest dangers of our time because it hides the fact that these systems are built on biased data, created by homogenous teams, and often deployed with little oversight or accountability.

As a result, this book is the result of years of research, reflection, and lived experience. Indeed, it is my attempt to make sense of how AI is shaping the world we live in, and more importantly, how we can intervene in these processes to ensure that AI is used not as a tool of oppression, but as a tool for liberation. Central to this work is the belief that technology must be interrogated through the lens of social justice—that we must ask not just what AI can do, but what it should do.

The Purpose of This Book

AI UNVEILED: From Techno Biases to Solutions Within Education and Beyond aims to fill a critical gap in the existing discourse in AI. While much has been written about the technical aspects of AI, far less attention has been given to the social, cultural, and ethical implications of these technologies—particularly their impact on marginalized communities. This book, therefore, seeks to bridge that gap by bringing together critical scholarship particularly in techno racism, techno prejudices, and pedagogy with cutting-edge research in AI.

The title itself reflects the core themes of the book: Techno Biases refer to the systemic and sometimes unintended prejudices embedded within technological systems, algorithms, and digital infrastructures. These biases arise from the data, design processes, and human assumptions that inform technological development—particularly Artificial Intelligence (AI), machine learning, and automated decision-making tools. Techno Racism refers to the ways in which AI systems perpetuate racial biases and reinforce the structures of white supremacy. Techno Misogyny explores how these same technologies marginalize women, particularly women of color, by embedding sexist assumptions into their algorithms. Transgressive Pedagogy is the educational framework I propose for addressing these issues, rooted in the work of thinkers like bell hooks and Paulo Freire, who advocate for education as a practice of freedom and liberation. This pedagogy challenges traditional approaches to teaching with AI and demands that educators and students critically engage with the ethical and societal implications of technology.

Through this book, I hope to spark conversations about the following questions:

- How is AI encoding forms of systemic oppression, and what are the consequences for marginalized communities?
- In what ways is the history of oppression repeating itself through AI—manifesting as techno biases in new digital spaces?
- How can educators integrate AI into their teaching in a way that promotes critical thinking, equity, and social justice, rather than alienating students from the technology?
- How can we, as a society, dismantle the biases embedded in AI and create technologies that serve the interests of all people, rather than a privileged few?

The Urgency of This Work

The issues addressed in this book are not hypothetical; they are real, urgent, and unfolding before our eyes. As AI becomes more deeply embedded in the fabric of our society, the stakes are only getting higher. If left unchecked, AI will not only reinforce existing systems of oppression but create new ones—entrenching inequalities in ways that will be even harder to dismantle. But there is hope. The future of AI is not predetermined. It can be shaped, challenged, and transformed. This book is both a critique and a call to action—an invitation to educators, students, activists, entrepreneurs, and technologists to imagine a world where AI is not a tool of oppression but a force for liberation.

A Vision for the Future

The future of AI—and indeed the future of our society—depends on the choices we make today. Will we allow AI to continue replicating the biases and injustices of the past, or will we work together to create technologies that promote equity, justice, and inclusion? My hope is that this book provides readers with the tools to engage in these critical conversations and to take action in their own spheres of influence. As we move forward, it is clear that AI will be a defining force of the 21st century. But the question remains: Who will it serve, and how will it shape the world we leave behind for future generations?

This book is an invitation to think deeply about those questions, to resist the false promises of technological neutrality, and to take part in the movement for a more just and equitable digital future. Together, we can imagine and create a world where technology is used not to reinforce oppression and biases— but to uplift, empower, and liberate all people.

INTRODUCTION

Every technological revolution rewrites the story of who counts as human — and in the age of artificial intelligence, the struggle over that story has become urgent, visible, and profoundly unfinished. Artificial intelligence promises efficiency, innovation, and unprecedented access to knowledge, yet beneath these promises lies a deeper question: whose histories, languages, and bodies are recognized by machines, and whose are rendered invisible? AI did not emerge in a vacuum; it inherits the cultural assumptions, structural inequities, and imaginative limitations of the societies that create it. This book argues that the future of artificial intelligence is not solely a technical challenge but a moral, pedagogical, and political project — one that demands we confront techno racism, techno misogyny, and algorithmic exclusion while reimagining technology through justice-centered frameworks such as Techno-Transgressive Pedagogy and restorative AI practices. Through narrative, scholarship, and praxis, *AI Unveiled* positions education, culture, and collective imagination as the pathways through which humanity can reclaim agency over the machines it has built.

Artificial intelligence is not merely a technological development but a social infrastructure that encodes historical power relations; therefore, the struggle for AI justice is fundamentally a struggle over narrative, knowledge, and human liberation — one that demands reimagining education, policy, and design through justice-centered frameworks such as Techno-Transgressive Pedagogy.

Across twenty-six chapters, this book moves from exposure to reconstruction — tracing how artificial intelligence reproduces historical inequities while offering pathways toward ethical transformation grounded in education, cultural memory, and collective liberation.

The Anatomy of Techno Biases

AI Unveiled: From Techno Bias to Solutions Within Education presents a groundbreaking and necessary examination of the intersections between Artificial Intelligence (AI), biases within AI, and education. The emergence

of *Techno Biases*[1] must be understood within a broader lineage of scholarship that interrogates how biases, such as racism, sexism, and cultural hierarchy are replicated through technology. Ruha Benjamin (2019) calls this the *"New Jim Code,"* exposing how algorithms perpetuate racial control under the illusion of objectivity. Safiya Umoja Noble's *Algorithms of Oppression* (2018) demonstrates how search engines amplify misogynoir and structural discrimination. Joy Buolamwini's landmark *Gender Shades* (2018) study revealed that commercial facial-recognition systems misidentified darker-skinned women up to 34 percent more often than lighter-skinned women—quantifying the lived harm of techno bias in practice. Together, these works establish that AI is not merely a technical system, but a socio-historical apparatus through which long-standing structures of inequality are reproduced, normalized, and too often rendered invisible within educational and institutional spaces.

While Benjamin, Noble, and Buolamwini expose how bias operates at the level of representation, classification, and recognition, Virginia Eubanks (*Automating Inequality*, 2018) reveals how data-driven systems extend these harms through bureaucratic automation, constructing what she terms a "digital poorhouse" that disproportionately disciplines and excludes marginalized communities. Expanding the lens further, Kate Crawford's *Atlas of AI* (2021) uncovers the extractive political economy beneath so-called neutral technologies, tracing how human labor, environmental resources, and social power are invisibly consumed to sustain AI systems. Together, these scholars illuminate the broader architecture of what this book defines as Techno Biases—an interconnected web of algorithmic, infrastructural, and cultural distortions that do not merely reflect inequality, but actively organize, legitimize, and reproduce it across social and educational systems.

Yet, while each of these thinkers isolates a particular dimension of bias—whether racial, gendered, economic, or infrastructural—this work brings these strands together under a single integrative framework: Techno Biases. Rather than treating bias as a series of isolated technical glitches, this framing emphasizes how oppression operates intersectional and systemically across technological ecosystems. By uniting these scholarly interventions, *AI Unveiled* invites educators, policymakers, and technologists to move beyond single-axis critiques toward a justice-centered praxis that recognizes how race, gender, class, language, and power are simultaneously encoded into data systems, algorithms, and institutional infrastructures.

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[1] First formal definition by Dr. Monique L. Akassi (2025). Informal variants such as "techno bias" have appeared in non-academic contexts without formal attribution.

In this way, Techno Biases functions not merely as a descriptive term, but as a diagnostic and pedagogical tool. It enables scholars and practitioners to identify where inequity enters technological systems, how it circulates across platforms, and why it persists even in the absence of explicit discriminatory intent. More importantly, it offers a framework for dismantling these structures by making visible the often-invisible technological architectures that sustain inequality. To name techno bias is to render it legible—and therefore contestable.

As the world becomes increasingly dependent on artificial intelligence, this book demonstrates how AI does not simply mirror society but actively reproduces and amplifies historical and contemporary oppressions, particularly against people of color, women, and other marginalized communities. Drawing on critical analyses, quantitative and qualitative research, and lived experience, *AI Unveiled* traces how negative representations—once circulated through media, policy, and schooling—are now encoded into datasets, predictive models, and automated decision-making systems. These representations do not remain abstract; they shape material outcomes in education, employment, surveillance, healthcare, and access to opportunity. Ultimately, this book not only exposes these cycles of digital oppression but also turns deliberately toward pedagogy and critical theory to imagine and enact transformative alternatives.

Central to this intervention is the role of pedagogy in either maintaining or dismantling oppressive systems. Drawing on bell hooks' *Teaching to Transgress: Education as the Practice of Freedom* (1994), this work underscores how traditional educational practices—often framed as neutral or meritocratic—can quietly reproduce the very hierarchies they claim to challenge. As hooks writes, "As we work to affirm multicultural education we must collectively interrogate whether our pedagogical practices reflect our concern for diversity. To embrace the challenge of diversity, we must recognize the limits of our own knowledge and be willing to acknowledge our complicity in accepting and perpetuating biases" (p. 37). Hooks thus positions education as a radical space of accountability, one that demands sustained self-reflection from teachers, institutions, and systems of knowledge production.

Her call resonates with particular urgency in the digital age, where algorithms increasingly mediate access to information, representation, and opportunity. Extending hooks' insights into the realm of artificial intelligence reveals that the biases once embedded in curricula, assessment practices, and institutional norms are now embedded in datasets, coding practices, and predictive models. AI systems inherit the epistemologies of the institutions that deploy them. This text therefore not only critiques

AI's role in maintaining these boundaries but also equips educators, students, and activists with conceptual and pedagogical tools to challenge and transform them.

Extending hooks' liberatory pedagogy into AI compels educators, technologists, and policymakers to fundamentally rethink how technology is designed, implemented, and taught. If, as hooks insists, education must be a "practice of freedom," then AI in educational contexts must be reimagined as a practice of equity—one that actively resists surveillance, linguistic bias, algorithmic profiling, and data-driven exclusion. Ethical AI design requires participatory frameworks that include historically marginalized communities in processes of data collection, system design, evaluation, and policy formation. This approach aligns with the principles of critical pedagogy, in which authority is decentralized, and knowledge is co-created rather than imposed.

Within classrooms, this reorientation necessitates the integration of AI literacy alongside social justice education, empowering students to interrogate how algorithms shape what they see, how they learn, and whose knowledge is prioritized. Within institutions, it demands transparency in AI adoption, rigorous evaluation of outcomes, and accountability for the impacts these tools have on student success, privacy, and inclusion. In this sense, hooks' vision serves not only as a moral compass but as a practical roadmap—one that calls educators to cultivate critical consciousness, dismantle digital oppression, and ensure that AI serves liberation rather than domination.

Ultimately, *AI Unveiled* insists that the future of technology and education cannot be separated from the struggle for human dignity. As bell hooks reminds us, teaching is never neutral—it is either a practice of domination or a practice of freedom. The same is true of artificial intelligence. Whether embedded in a classroom platform, a university admissions algorithm, or a hiring system, AI reflects the values and assumptions of those who design and deploy it. To honor hooks' legacy is to reimagine these systems through empathy, accountability, and justice. By uniting pedagogy with technological ethics, this book moves toward a future in which learning—and the tools that sustain it—becomes an act of liberation rather than exclusion.

This foundational lens paves the way for the core inquiries that guide the chapters that follow—questions that not only interrogate AI's complicity in systemic injustice, but also seek actionable pathways toward transformation, equity, and educational justice.

Key Questions Addressed in This Book

- What is Artificial Intelligence, and in what ways does it perpetuate bias through techno racism, techno misogyny, and other intersecting forms of systemic inequality?
- How do AI systems encode historical and contemporary structures of oppression into their technical architectures—such as data selection, algorithmic design, and automated decision-making—and what consequences do these often-invisible injustices have for marginalized communities?
- In what ways does AI function as a continuation of historical patterns of exclusion, replicating racialized, gendered, and class-based hierarchies within digital, algorithmic, and institutional spaces?
- How can educators shift from viewing AI as a threat or alienating force in the classroom to integrating it into high-impact, critically informed assignments that promote equity, student engagement, and resistance to digital oppression?
- How can society interrogate, deconstruct, and reconstruct AI through a civil rights lens, thereby advancing a *Techno-Civil Rights Movement* aimed at dismantling the racism, misogyny, and structural inequality embedded within modern technological systems?

Scope, Contribution, and Scholarly Intervention

AI Unveiled: From Techno Biases to Solutions Within Education offers a rigorous, interdisciplinary examination of how artificial intelligence technologies operate as mechanisms that can reproduce and intensify structural oppression—particularly against marginalized communities—while also identifying pathways toward ethical, equitable, and justice-centered alternatives. Rather than treating AI bias as accidental or purely technical, this book situates algorithmic harm within broader historical, cultural, and institutional contexts, drawing on critical race theory, feminist scholarship, composition and rhetoric, education studies, and digital ethics.

By placing AI at the center of contemporary social justice discourse, this work demands accountability for the harms these systems inflict while simultaneously advancing actionable rhetorical, pedagogical, and institutional strategies for resistance and transformation. Addressing the roles of educators, students, policymakers, technologists, and global

communities, *AI Unveiled* moves beyond critique to offer practical frameworks for integrating AI into educational spaces in ways that foster critical thinking, deepen learning, and challenge entrenched institutional biases.

Audience and Educational Impact

The intended audience for this book includes educators, scholars, researchers, policymakers, technologists, corporate, and advocates seeking to understand and confront the structural inequities embedded in AI systems. It is particularly relevant for those navigating the ethical and pedagogical challenges of AI adoption in K–12 and higher education, where algorithmic tools increasingly shape assessment, surveillance, admissions, and access to opportunity.

For educators, this text provides concrete frameworks for responsible AI integration that prioritize inclusivity, transparency, and student agency. By adopting the critical lenses and strategies advanced in this book, instructors can better prepare students to interrogate AI technologies, strengthen analytical and cognitive skills, and engage more thoughtfully in academic, professional, and civic contexts. In doing so, *AI Unveiled* positions education as a vital site for cultivating technological literacy, ethical awareness, and social responsibility.

Toward a Techno-Civil Rights Movement

As artificial intelligence increasingly mediates education, labor, governance, and daily life, scholars and activists have begun calling for a Techno-Civil Rights Movement—a moral, pedagogical, and policy-driven effort to ensure that digital technologies advance equity rather than entrench oppression. This movement draws on the legacy of traditional civil rights struggles while recognizing that contemporary injustice is increasingly enacted through algorithms, data infrastructures, and automated systems.

AI Unveiled contributes to this emerging movement by arguing that technological systems must be subject to the same scrutiny, regulation, and ethical accountability as other institutions that shape human opportunity and dignity. By foregrounding education as a critical site of intervention, the book insists that the future of AI must be guided not by efficiency alone, but by justice, inclusion, and a commitment to human liberation.

Methodological and Positionality Note

This book is grounded in an interdisciplinary methodology that brings together critical race theory, Black feminist thought, composition and rhetoric, critical pedagogy, science and technology studies, and legal and policy analysis. Rather than approaching artificial intelligence as a purely technical artifact, *AI Unveiled* treats AI as a cultural, rhetorical, and institutional force—one that both reflects and reproduces existing systems of power. The analyses in this text draw on qualitative and quantitative research, policy review, case studies, classroom-based inquiry, and critical discourse analysis to interrogate how AI operates across educational, corporate, and civic spaces.

Equally important, this work is shaped by positionality. As a scholar of rhetoric and composition, an educator working at the intersections of AI, equity, and pedagogy, and a Black woman navigating institutions historically structured by exclusion, I write from both scholarly expertise and lived experience. This positional awareness is not a limitation, but a methodological strength. It enables a critical attentiveness to how AI systems are experienced differently across race, gender, class, and institutional position—particularly by those most affected by algorithmic decision-making yet least involved in its design.

Accordingly, *AI Unveiled* rejects claims of technological neutrality and instead embraces a justice-centered approach that acknowledges complicity, accountability, and responsibility as essential components of ethical inquiry. By situating AI within broader histories of inequality and resistance, this book advances a framework that is both analytically rigorous and ethically engaged—one that invites readers to interrogate not only how AI works, but whom it serves, whom it harms, and how it might be reimagined in the pursuit of equity and liberation.

Artificial intelligence has emerged not simply as a technological revolution but as a profound reorganization of power, knowledge, and human possibility. While many narratives frame AI as an inevitable progression toward efficiency and innovation, this book argues that artificial intelligence is fundamentally a human story — one shaped by history, culture, imagination, and inequality. The systems we call intelligent are neither neutral nor autonomous; they are mirrors reflecting the values, assumptions, and hierarchies embedded within the societies that create them. From algorithmic bias to generative creativity, AI exposes an urgent paradox: technologies designed to expand human potential can simultaneously reproduce the exclusions of the past unless guided by ethical intention. This work therefore moves beyond critique to

offer a vision of transformation — positioning education, narrative, and justice-centered design as the pathways through which humanity can reclaim authorship over its technological future. Through the framework of Techno-Transgressive Pedagogy and the praxis of Restorative AI, this book invites readers not only to interrogate the machine, but to rewrite the relationship between technology and liberation itself.

CHAPTER SYNOPSES

Chapter 1 – "AI in the Academy: A Modern Echo of *Brown v. Board of Education.*" This chapter examines how algorithmic decision-making in college admissions and educational assessment raises new equity concerns that parallel the exclusionary structures challenged by *Brown v. Board of Education*. By placing legal segregation in historical dialogue with contemporary forms of algorithmic sorting, prediction, and data-driven gatekeeping, the chapter illustrates how AI systems can reproduce stratified access to educational opportunity under the appearance of neutrality. Through this comparison, the chapter argues that while segregation is no longer sanctioned by law, its logics may persist through digital infrastructures that shape who is admitted, funded, monitored, and advanced within higher education—particularly for marginalized students.

Chapter 2—"Techno Transgressive Pedagogy," introduces Techno-Transgressive Pedagogy, an original theoretical and pedagogical framework that challenges the ways artificial intelligence reproduces systemic oppression within educational spaces. Drawing inspiration from transgressive pedagogies articulated by bell hooks and Paulo Freire, as well as contemporary scholarship on AI, race, gender, and power, this chapter argues that traditional approaches to AI in education often reinscribe techno racism, techno misogyny, linguistic bias, and digital surveillance under the guise of innovation and efficiency.

Techno-Transgressive Pedagogy reframes AI not as a neutral instructional tool, but as a cultural and political artifact that must be interrogated, resisted, and reimagined through critical consciousness. The chapter theorizes how bias becomes embedded across data sets, algorithmic design, and institutional adoption practices, and demonstrates how these processes disproportionately harm marginalized students—particularly students of color, women, and linguistically diverse learners.

Moving beyond critique, the chapter articulates the core principles of Techno-Transgressive Pedagogy, outlining how educators can actively disrupt digital oppression through justice-centered teaching practices. These principles emphasize critical AI literacy, participatory knowledge production, ethical refusal of harmful technologies, and pedagogical practices that foreground student agency, lived experience, and collective accountability. Through illustrative examples drawn from first-year writing,

composition, and interdisciplinary classrooms, the chapter demonstrates how AI can be integrated into coursework in ways that cultivate resistance, reflexivity, and liberation rather than compliance and surveillance.

Ultimately, this chapter positions Techno-Transgressive Pedagogy as both a theoretical intervention and a practical framework**,** offering educators, scholars, and institutions a roadmap for teaching with and against AI. By insisting that technology in education must be accountable to justice, this chapter lays the conceptual foundation for the book's broader argument: that AI's role in the academy must be transformed from an instrument of domination into a practice of freedom.

Chapter 3 — "Inoculation of the Colonial Imaginary and Techno Biases," interrogates how artificial intelligence development reproduces and extends colonial hierarchies through processes of data extraction, linguistic dominance, and cultural erasure. Situating contemporary AI systems within longer histories of imperial knowledge production, the chapter examines how Western-centric models of intelligence, language, and "innovation" are embedded into algorithms that disproportionately privilege Global North epistemologies while marginalizing non-Western peoples, cultures, and ways of knowing.

Drawing on scholarship in postcolonial studies, critical race theory, and digital political economy, the chapter critiques what scholars have described as technological colonialism—the global exportation of AI systems trained on Western data, values, and norms, often deployed in regions historically subjected to colonial rule. These systems, presented as neutral and universal, frequently reproduce racialized hierarchies by erasing linguistic diversity, misclassifying non-Western identities, and embedding deficit-based assumptions about communities of color.

By examining AI's role in areas such as language modeling, surveillance technologies, educational platforms, and global data infrastructures, this chapter demonstrates how Techno Biases operate transnationally, transforming colonial logics into digital governance. The chapter argues that while formal colonialism may have ended, its epistemological structures persist through AI systems that regulate access, knowledge, and opportunity on a global scale.

Ultimately, this chapter calls for an inoculation of the colonial imaginary—a critical intervention that exposes, disrupts, and resists the normalization of colonial power within technological systems. In doing so, it lays the groundwork for justice-centered AI practices that reject digital empire-building and instead affirm plurality, cultural sovereignty, and global equity.

Chapter 4 – "Visual Rhetoric, Techno Racism, and Techno Misogyny," examines how artificial intelligence transforms visual rhetoric into a powerful mechanism for shaping political perception, cultural memory, and social legitimacy. Moving beyond textual analysis, this chapter argues that AI-generated imagery—deepfakes, synthetic visuals, manipulated media, and algorithmically amplified content—represents a new frontier in the reproduction of racialized and gendered narratives. Drawing on critical race theory, media studies, and digital humanities scholarship, the chapter demonstrates how visual technologies often reproduce historical patterns of dehumanization, particularly through the targeting of women and Black public figures within digital political discourse.

Through contemporary case studies and historical analysis, the chapter situates AI-generated visual propaganda within a longer lineage of racialized imagery, tracing connections from minstrel caricature and colonial visual culture to modern algorithmic media systems. Special attention is given to the role of misogynoir and techno racism in shaping digital environments where visibility becomes both a site of power and vulnerability. By examining the circulation of racially charged imagery involving prominent public figures, the chapter reveals how algorithmic platforms amplify emotional spectacle while obscuring ethical accountability.

Central to the analysis is the concept of algorithmic spectacle—the process through which AI-driven visual media constructs persuasive narratives that blur the boundaries between reality and fabrication. The chapter argues that artificial intelligence does not invent visual bias but accelerates historical visual hierarchies embedded within cultural archives and technological infrastructures. In response, Chapter 4 introduces a justice-centered framework for critical visual literacy grounded in Techno-Transgressive Pedagogy, positioning educators and students as active interpreters and challengers of digital visual power.

Ultimately, this chapter establishes that visual rhetoric in the age of AI is not merely a technological issue but a cultural and ethical battleground. By reclaiming visual analysis as a form of civic engagement, Chapter 4 lays the groundwork for the book's later chapters, which move from critique toward reconstruction—exploring how ethical design, liberatory pedagogy, and justice-centered technological practices can reimagine artificial intelligence as a tool for collective transformation rather than digital harm.

Chapter 5 – "The Costly Repercussions of AI Slip-Ups in the Academy, Corporate, and Beyond," examines the far-reaching consequences of AI failures across academic, corporate, and professional domains, revealing how algorithmic errors and unchecked automation can produce profound social, economic, and reputational harm. From biased hiring systems and discriminatory workplace analytics to flawed academic evaluation tools that misjudge student ability, this chapter demonstrates how AI "slip-ups" are rarely minor or accidental—they are structural outcomes of opaque design, biased data, and inadequate oversight. By tracing the ripple effects of these failures on individuals and institutions alike, the chapter underscores the urgent need for accountability, transparency, and ethical review in AI deployment. It argues that without rigorous safeguards and human judgment, AI systems risk amplifying injustice at scale, and it calls on educators, administrators, and industry leaders to adopt ethical frameworks that prioritize responsibility, redress, and long-term equity over speed and profit.

Chapter 6 – "Transgressive Pedagogy for AI Practice in the Academy and Corporate," formally introduces Techno-Transgressive Pedagogy, a justice-centered educational framework grounded in Black feminist thought, critical pedagogy, and abolitionist approaches to technology. Building on the work of bell hooks, Paulo Freire, Ruha Benjamin, and contemporary scholars of AI ethics, the chapter argues that traditional models of AI literacy often reproduce hierarchy by privileging technical mastery over ethical consciousness. In contrast, Techno-Transgressive Pedagogy centers critical reflection, collective responsibility, and human rights, challenging institutions to rethink how AI is taught, deployed, and governed. The chapter extends this framework beyond the academy into corporate and professional contexts, demonstrating how transgressive pedagogical practices can interrupt extractive, surveillance-driven uses of AI and reorient technology toward liberation rather than control.

Chapter 7 – "The Algorithmic Divide: Socioeconomic Barriers and Digital Exclusions in Education," examines the algorithmic divide—the widening gap produced when access to AI-enhanced learning environments is unevenly distributed along lines of race, class, geography, and institutional privilege. Drawing on research in digital inequality, educational access, and critical data studies, the chapter demonstrates how AI tools increasingly benefit already-resourced institutions while exacerbating disadvantage for marginalized communities. It highlights how disparities in infrastructure, broadband access, data literacy, and institutional support shape who benefits from AI innovation and who is

excluded. The chapter concludes by proposing actionable solutions, including policy reform, public investment in digital infrastructure, and equitable AI training initiatives designed to democratize access rather than deepen stratification.

Chapter 8 – "Unmasking Algorithmic Bias: Challenges in AI Development and Implementation," exposes the structural roots of algorithmic bias, tracing how inequities emerge through flawed datasets, homogenous development teams, and opaque corporate governance structures. Drawing on scholarship from critical race theory, science and technology studies, and AI ethics, the chapter demonstrates how bias is not an accidental byproduct of AI systems but a predictable outcome of exclusionary design practices. By analyzing real-world failures in facial recognition, predictive analytics, and automated decision-making, the chapter calls for systemic reform through inclusive data practices, independent algorithmic audits, and enforceable ethical accountability. It argues that transparency alone is insufficient without structural change in how AI systems are conceived, tested, and deployed.

Chapter 9 – "The Digital Disruption of Justice: AI's Role in Institutional Policies and Accountability," investigates how algorithmic systems increasingly mediate institutional governance, reshaping decision-making in hiring, admissions, policing, grading, and surveillance. While often framed as tools of efficiency and neutrality, these systems frequently obscure accountability and limit due process for those most affected by their outcomes. The chapter introduces the concept of algorithmic due process, arguing for procedural safeguards that ensure transparency, contestability, and civil-rights protections in digital decision-making. By situating AI governance within broader legal and ethical traditions, the chapter challenges institutions to confront how automated systems redefine responsibility, power, and justice in contemporary society.

Chapter 10 – "Redefining Equity: Navigating the Future of AI and Ethical Standards in Higher Education," outlines a forward-looking roadmap for equitable AI integration in higher education. It examines how universities can move beyond reactive policies toward proactive ethical frameworks that emphasize institutional transparency, faculty development, and student inclusion. Drawing on case studies and emerging best practices, the chapter argues that ethical AI adoption must be embedded at every stage—from procurement and implementation to assessment and revision. Rather than treating equity as an add-on, the

chapter insists that justice and accessibility must function as core design principles guiding the future of AI in academic institutions.

Chapter 11 – "AI Across the Disciplines," demonstrates how AI reshapes research, communication, and pedagogy across academic disciplines, challenging the notion that AI literacy belongs solely within STEM fields. The chapter argues for a collaborative reimagining of higher education in which the humanities, sciences, arts, and social sciences jointly engage AI as both an object of critique and a tool for innovation. By highlighting interdisciplinary approaches to AI literacy, the chapter emphasizes the importance of cultural, rhetorical, and ethical analysis in shaping technologies that serve diverse communities and societal needs.

Chapter 12 – "The Future of AI and Inclusivity: Challenges and Possibilities," looks ahead to the evolving landscape of inclusive AI design, assessing both emerging opportunities and persistent risks. It examines how rapid technological advancement complicates efforts to ensure fairness, accountability, and representation, particularly as AI systems become more autonomous and globally distributed. At the same time, the chapter highlights international movements, grassroots initiatives, and interdisciplinary collaborations that are advancing digital justice and intersectional innovation. It argues that inclusivity must be understood as an ongoing process rather than a fixed outcome, requiring continual ethical vigilance and collective engagement.

Chapter 13 – "The Transformative Power of AI in Education," shifts the focus from critique to possibility, illustrating how AI—when ethically implemented—can foster creativity, accessibility, and student engagement. Through classroom examples, instructor reflections, and pedagogical experimentation, the chapter demonstrates how AI can support learning without displacing human judgment or relational teaching. Rather than positioning AI as a replacement for educators, the chapter frames it as a tool that can enhance reflective practice, amplify student voice, and expand access when guided by justice-centered pedagogy.

Chapter 14 – "AI Ethics and Reform Efforts: Building a Better Framework," surveys existing global AI ethics initiatives, including regulatory models, institutional guidelines, and international policy frameworks. It critically evaluates the strengths and limitations of these efforts, noting how many remain voluntary, unenforceable, or disconnected from lived experience. Drawing on civil-rights traditions, moral philosophy, and cross-sector collaboration, the chapter argues for a

more robust and enforceable ethical framework—one that treats AI governance as a matter of public accountability rather than corporate discretion.

Chapter 15 – "AI as a Collaborative Frontier: Bridging Disciplines for Equitable Solutions," positions collaboration as the cornerstone of ethical AI development. By uniting scholars, technologists, artists, educators, and activists, the chapter demonstrates how interdisciplinary partnerships can disrupt siloed innovation and produce more inclusive, culturally responsive technologies. It argues that ethical AI cannot emerge from technical expertise alone, but requires shared knowledge, mutual accountability, and collective imagination.

Chapter 16 – "ChatGPT and the Marginalized Student: Bridging the Academic Divide," explores how generative AI tools such as ChatGPT can empower students from historically marginalized backgrounds by supporting idea generation, language development, and academic confidence. Challenging dominant narratives that frame AI-assisted writing as inherently unethical, the chapter defends its use as a tool of access and equity when guided by transparent, ethical pedagogy. It emphasizes that AI does not replace student thinking but can scaffold learning for those excluded from traditional academic discourse.

Chapter 17 – "AI in College Admissions and Scholarships: A Discriminatory History Rewritten," investigates how algorithmic systems in admissions and financial-aid decisions replicate historical patterns of exclusion, disproportionately disadvantaging students of color and low-income applicants. By tracing parallels between past discriminatory practices and contemporary data-driven decision-making, the chapter reveals how bias is reencoded rather than eliminated. It proposes transparent, reparative models of evaluation that prioritize fairness, human oversight, and democratic access to higher education.

Chapter 18 – "AI and Writing Across the Disciplines in Education," examines AI's evolving role in Writing Across the Curriculum (WAC) and Writing in the Disciplines (WID) programs. It demonstrates how AI can enhance rhetorical awareness, genre flexibility, and digital literacy when integrated within culturally sustaining pedagogy. Rather than standardizing student voice, the chapter argues that AI—used critically—can support linguistic diversity and disciplinary nuance.

Chapter 19 – "Ethics, Equity, and Civics in the Age of AI in the Academy," links AI ethics to civic engagement, arguing that universities have a responsibility to cultivate technologically literate citizens who understand the social consequences of digital systems. The chapter challenges institutions to frame AI education as a civic obligation, emphasizing moral accountability, democratic participation, and public responsibility alongside innovation.

Chapter 20 – "Restorative AI: Healing Through Storytelling, Trauma-Informed Pedagogy, and Digital Wellness," reimagines AI as a potential tool for healing rather than harm. By integrating trauma-informed pedagogy, narrative practices, and digital wellness frameworks, it explores how technology can support emotional intelligence, storytelling, and collective resilience. The chapter positions restorative AI as a counter-narrative to extractive and punitive technological models.

Chapter 21 – "Coding Liberation: Afrofuturist and Womanist Visions for the Future of AI," imagines alternative futures for AI grounded in creativity, cultural memory, and radical imagination. It celebrates art, storytelling, and speculative practice as essential forms of technological critique and design, reclaiming coding and innovation as sites of liberation rather than domination.

Chapter 22 – "Policy, Praxis, and Power: Legislative Pathways for Algorithmic Justice," issues a call to action for policymakers, educators, technologists, and communities. It maps concrete legislative and institutional pathways toward algorithmic justice, emphasizing equitable regulation, ethical reform, and grassroots advocacy. The chapter envisions a future in which technology serves human dignity, democratic values, and collective liberation—rather than hierarchy and exclusion.

Chapter 23 — "Ethical Futures and Institutional Responsibility," explores governance, policy, and the institutional role in shaping ethical AI ecosystems. It emphasizes interdisciplinary leadership and positions universities—especially HBCUs—as key sites of ethical innovation.

Chapter 24 — "Narrative Power, Memory, and Digital Storytelling," reframes storytelling as technological resistance, exploring how AI influences narrative authority and cultural memory. Drawing on Afrofuturism and digital humanities, it positions narrative as a space of both risk and possibility.