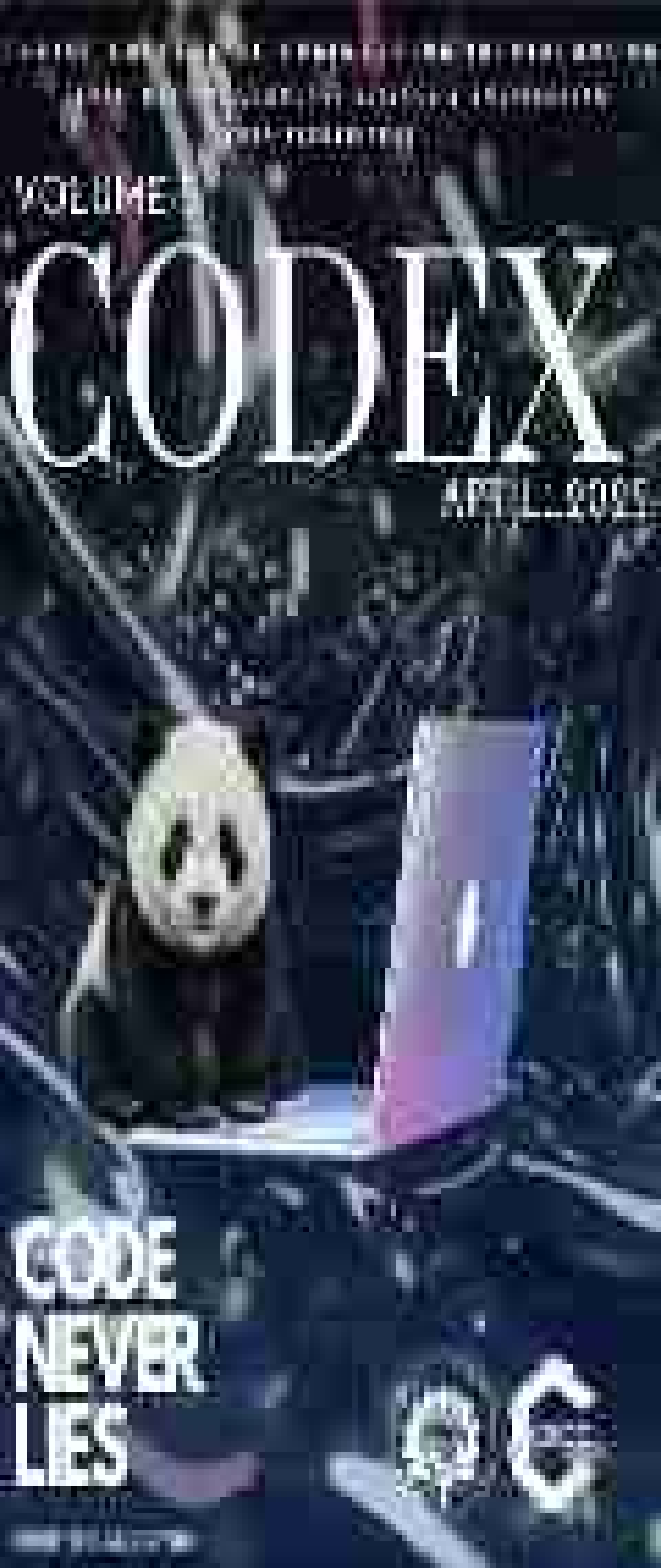
VOLUME

CODEX

APRIL 2025



VISION

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MISSION

1. [illegible]
2. [illegible]
3. [illegible]

PROGRAM SPECIFIC OUTCOMES

1. [illegible]
2. [illegible]

PROGRAM EDUCATIONAL OBJECTIVES

[illegible]

1. [illegible]
2. [illegible]
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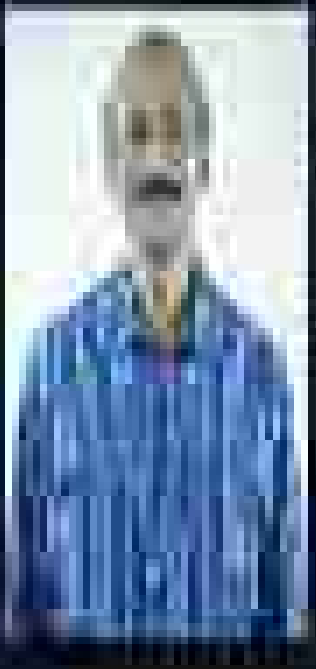


Principal's Message

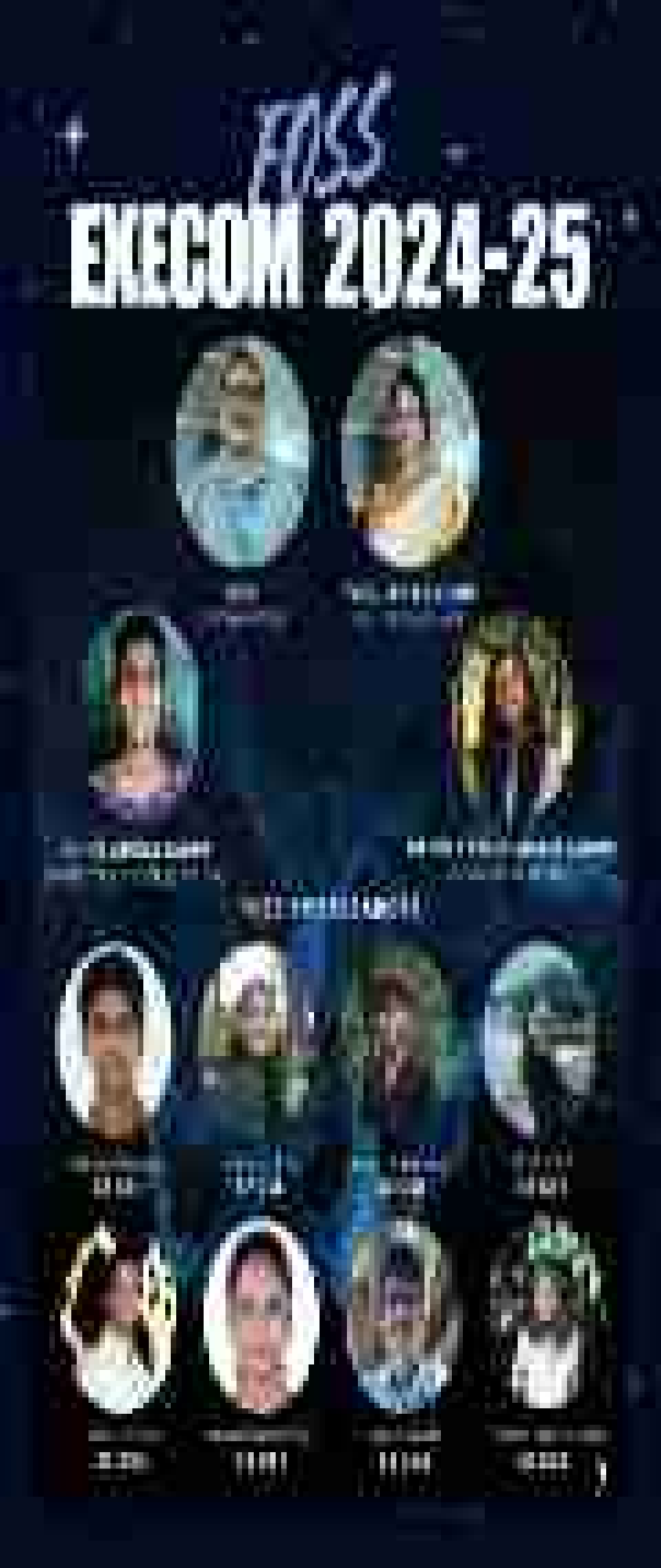
Executive Director's Message

HOD

EXECOM 2024-25

FASS

EXECOM 2024-25



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THE FUTURE OF WORK

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QUANTUM SENSORS

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BIOINFORMATICS AND PERSONALIZED MEDICINE

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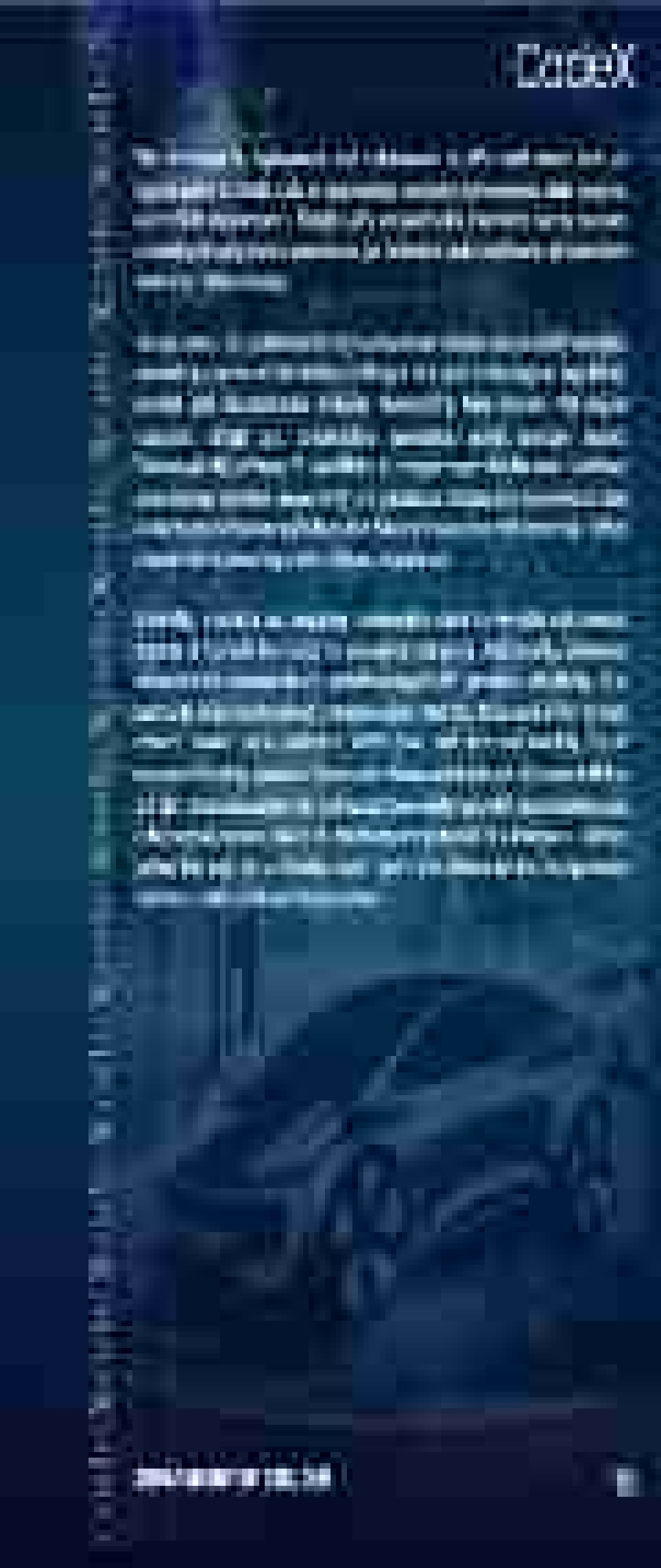

Sora and the Future of Text-to-Video AI Technology

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Introduction

[illegible]

1. The Evolution of Text-to-Video AI

[illegible]

Conclusion

[illegible]

2. Sora's Core Technology

[illegible]

Conclusion

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LaTeX

The Rise of Foundation Models in AI: GPT-4o and Beyond

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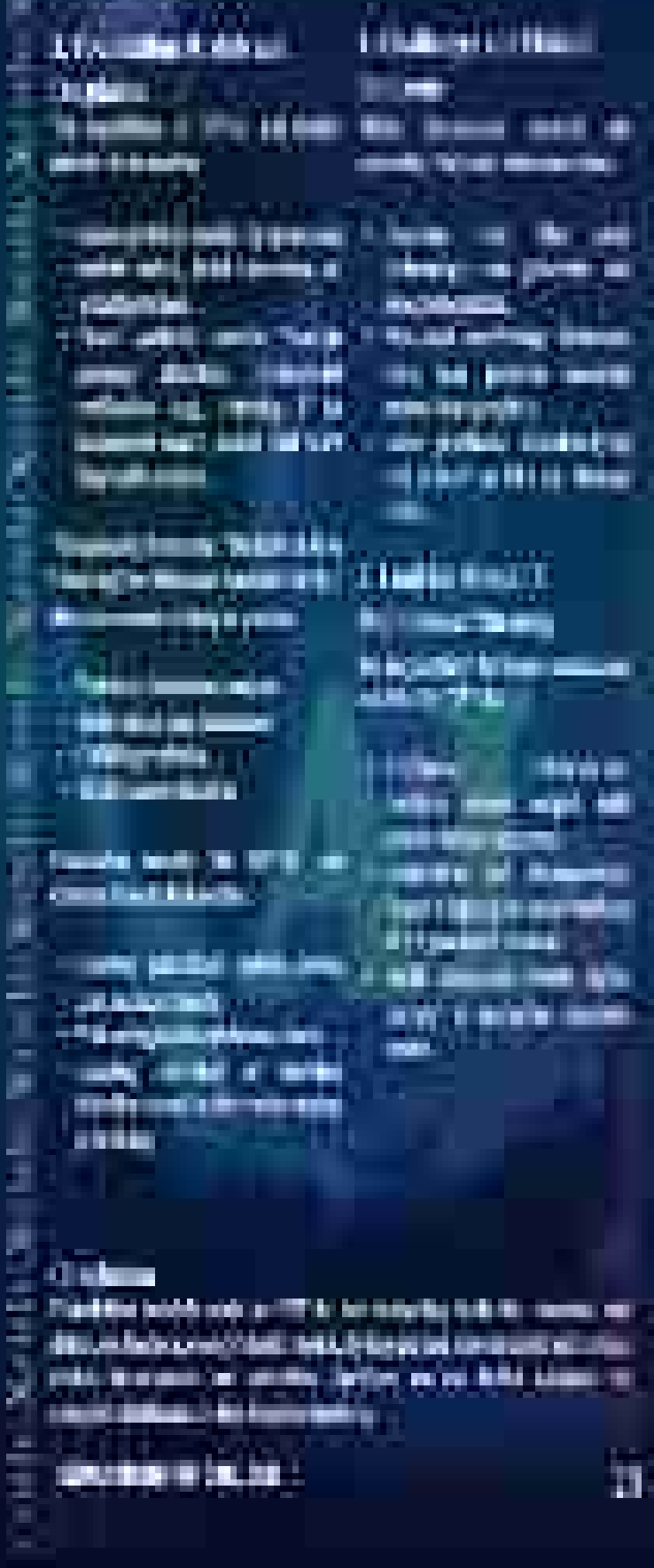

AI Hardware Wars: NVIDIA, AMD, and the Next Generation of Chips

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Green Tech Investments: Building Sustainable Data Centers

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Advancements in Human-like Robotics and Autonomous Systems

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Overview

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Early Diagnosis

[illegible]

Safety & Stability

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Patient Journey

[illegible]

Real-time

[illegible]

Clinical Risk

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Conclusion

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How AI Is Revolutionizing the Legal Industry: Automating Contracts and Case Reviews

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The Role of AI in Climate Modeling and Forecasting

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5G Advanced and 6G: The Future of Ultra-Fast Connectivity

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Wearable Health Devices: Monitoring and Improving Well-being

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Clara Lehn

Verlag Weltenschmiede

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Computational Photography: Enhancing Image Processing Techniques

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1 Introduction

2 Theoretical foundations

3 Methodology

4 Discussion

MANTICORE PRESS

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AI for Accessibility: Empowering People with Disabilities

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The Fall of the Lantern Guild

The Lantern Guild had been the most influential guild in the northern city of Ravenel for three centuries. Its charter granted it the exclusive right to manufacture and maintain the city's street lanterns, a monopoly that made its guildmaster one of the wealthiest men in the city. The guild's lanterns were made by hand, each one taking a journeyman roughly a week to complete. The guild's apprenticeship was seven years long, and it admitted fewer than twenty new apprentices every year.

Year	Event	Impact
1812	Gas lamps first installed in the harbour district	Lantern sales in the harbour district fall by 40% within two years
1815	Guild petitions the city council to ban gas lamps	Petition rejected; the council cites the guild's inability to light the city after dusk
1820	Gas lamps reach the market square	Lantern sales elsewhere in the city begin to decline
1824	Last lantern lighter retires	The guild's apprenticeship roll falls to zero for the first time in 200 years

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Ultimately, the conclusion

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Value Review

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Key Items

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AI in Cybersecurity: Predictive Threat Detection and Response

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1. Introduction

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2. The Evolution of Threat Detection

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Digital Therapeutics: Where Healthcare and Software Meet

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5. Immediate Practice for Practitioners

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6. Institutional Implications and Governance

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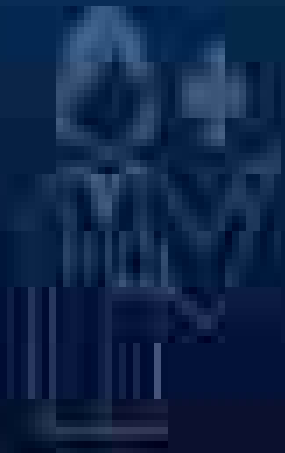

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Investment Trends in Tech Startups: What VCs Funded in 2025

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AI Companions and Emotional Intelligence in Virtual Agents

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Cardan's Intelligence Table

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Algebraic and Arithmetic Operations

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Collection Information

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Conditions

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Ethical Hacking: How Bug Bounties are Changing

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Digital Twins for Smart City Planning and Traffic Optimization

Introduction

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Why Digital Twins Matter

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The Ethics of AI: Navigating Bias, Accountability, and Transparency

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Introduction

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Scope and Use

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Conformance

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Terminology

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Normative References

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Conformance Requirements

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Implementation Requirements

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Compatibility

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AI in Education: Personalized Learning Platforms on the Rise

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Reinforced Learning

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[illegible] Problem Implications

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Inside Big Tech's AR/VR Media, Apple, and the Mixed Reality Race

Published by Codex

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1. Why Mixed Reality Is Big Tech's Big Bet

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MATTHEW WILLIAMS

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The Role of AI in Detecting Deepfakes and Synthetic Media

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