

Applied AI

FINANCE

07.03

01 WHY AI?

- Enhancing risk assessment
- Personalized financial services
- Fraud detection and prevention
- Automating routine tasks
- Improved customer experience

02 INDUSTRY

- Banking Institutions
- Investment Firms
- Insurance Companies
- Fintech Startups
- Financial Advisors

03 STRATEGIC TRENDS

- AI-driven robo-advisors
- Algorithmic trading
- Blockchain for secure transactions
- Digital wallets and payments
- AI in credit scoring
- Chatbots for customer service
- Fraud detection using AI
- Regulatory technology (RegTech)
- Insurtech innovations
- Data-driven personal finance

04 WHY CHANGE?

- Financial crime prevention
- Cost efficiency
- Personalized services demand
- Competitive edge
- Technological advancements

05 LEADING COMPANIES

- JPMorgan Chase (AI in risk management)
- Goldman Sachs (Algorithmic trading)
- PayPal (AI in payment systems)
- Ant Financial (Fintech innovations)
- Lemonade (AI-driven insurance)

06 ENABLING TECHNOLOGIES

- AI in fraud detection
- Blockchain for transaction security
- Robo-advisors for investment
- AI in risk management
- Machine learning in credit scoring
- Chatbots for customer interaction
- Algorithmic trading
- AI-driven compliance monitoring
- Predictive analytics in financial planning
- Insurtech for claim processing

07 AI DISRUPTION

- Automated investment strategies
- Real-time fraud detection systems
- Personalized banking experiences
- AI in regulatory compliance
- Efficient credit scoring models
- AI in actuarial analysis
- Enhanced underwriting in insurance
- Predictive financial market analytics
- AI for customer insights
- Chatbots enhancing client service

08 GREAT EXAMPLES OF AI

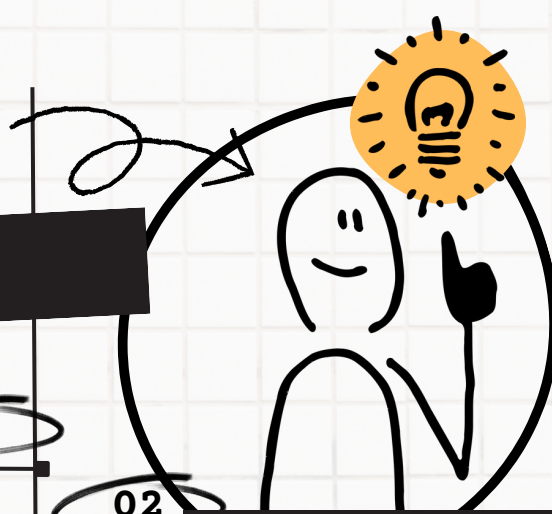
- Betterment's robo-advisor for investing
- AI-driven fraud detection at Mastercard
- KAI, AI-powered chatbot in banking
- ZestFinance's AI in credit scoring
- AI in Goldman Sachs' trading algorithms
- Ant Financial's AI in payment services
- AI-driven insurance models at Lemonade
- DeepMind for financial market predictions
- IBM Watson for financial advising
- Upstart's AI in personal lending

09 ECOSYSTEM REQUIREMENTS

- Advanced data analytics capabilities
- Robust cybersecurity infrastructure
- Regulatory compliance framework for AI
- Skilled workforce in AI and finance
- Cross-sector collaboration for tech development

10 NEW RISKS

- AI-driven financial crime sophistication
- Data privacy and security issues
- Biased AI algorithms
- Dependence on automated systems
- Regulatory challenges with AI integration



MISUSE

- AI manipulation in trading
- Fraudulent AI credit applications
- Biased AI in lending decisions
- Unauthorized data access in fintech
- AI in spreading financial misinformation

11

DILEMMAS

- Can AI replace human intuition in financial decisions?
- Balancing AI efficiency with job displacement?
- Ensuring AI fairness in credit and insurance?

12

ORG. REQUIREMENTS

- Strategic vision for AI adoption
- Investment in AI and data infrastructure
- Skilled AI teams and training
- Strong data governance policies
- Collaboration between tech and financial sectors

13

14

STEP BY STEP AI

- Identify financial processes for AI
- Select appropriate AI tools and partners
- Implement strong data security measures
- Train employees on AI systems
- Monitor, evaluate, and adapt AI solutions

BEST PRACTICES

- Focus on customer-centric AI solutions
- Ensure regulatory compliance in AI use
- Prioritize data security and privacy
- Continuously update AI models
- Foster a culture of innovation and adaptability

15

16

AI MODELS

- Neural networks for credit scoring
- Machine learning in fraud detection
- Natural Language Processing for customer service
- Predictive analytics in market trends
- Decision trees in risk assessment

DIGITAL TWINS

- Digital twins of financial markets
- Virtual models of banking processes
- AI simulations for risk management
- Digital replicas of customer portfolios
- Virtual financial planning assistants

17

18

GLOBAL LEADERS

- United States (Innovative financial technologies)
- China (Digital payment dominance)
- United Kingdom (Fintech hub)
- Singapore (Leading in financial AI adoption)
- Switzerland (Banking and wealth management)

FUTURE JOBS

- AI financial analysts
- AI risk management specialists
- Compliance officers for AI systems
- AI-driven customer experience managers
- Data scientists in finance

19

20

THE FUTURE OF AI

- AI in decentralized finance (DeFi)
- Enhanced AI-driven financial inclusion
- AI for real-time risk management
- Ethical AI in financial services
- AI in global economic forecasting

RECOMMENDED READING

- "The AI Book" by Susanne Chishti, Ivana Bartoletti
- "The End of Banking" by Jonathan McMillan
- "Machine, Platform, Crowd" by Andrew McAfee, Erik Brynjolfsson
- "Prediction Machines" by Ajay Agrawal, Joshua Gans, Avi Goldfarb
- "Life 3.0" by Max Tegmark (AI's broader impacts)

21

22

TED TALKS

- "AI and the Future of Money" - Shiv Malik
- "The Future of Money" - Neha Narula
- "AI: Catalyst for the Second Industrial Revolution" - Kelly
- "When Computers Surpass Humans" - Nick Bostrom
- "Blockchain's Impact on Money and Business" - Tapscott

ONLINE RESOURCES

- Investopedia: Financial education and dictionary.
- Bloomberg: Financial news and analysis.
- Yahoo Finance: Market news, data, and portfolio management resources.
- The Motley Fool: Investment advice and stock market analysis.
- Seeking Alpha: Stock market insights and financial analysis.

23

24

NEXT STEPS

- Engage with AI technology.
- Identify opportunities for AI application.
- Invest in AI education and training.
- Please contact us at hello@nextpaper.me for further exploration or inspiration through a **talk**, **workshop** or **case study**. We'd love to help!

