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Bots, Bard & ChatGPT:

How Finance and Banking Professionals Can Capitalize on the Latest Advancements in AI

Today's Agenda

01. **Introduction**

02. **What is Artificial Intelligence?**

03. **Artificial Intelligence Meets the Finance & Banking Industry**

04. **The Future of Artificial Intelligence**

05. **Q&A**

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Meet Our Speakers

Ryan Spendelow

VP of Content at CFI

Prior to joining CFI, Ryan taught financial modelling and capital markets to students in the world's leading investment banks and asset managers. Ryan spent a large part of his career teaching in London, New York and Hong Kong and is passionate about making learning about the finance markets as accessible as possible. Ryan loves sports, both watching and participating, and will quite happily spend hours grilling on the BBQ.

Joseph Yeates

Director of Business Intelligence and Data Analyst (BIDA®) at CFI

Joseph is passionate about driving better decision-making by creating, curating, and communicating insights from data. A data enthusiast with a background in Retail Banking, he is an advocate for making advanced analytics more accessible to a wider audience by integrating them into business intelligence solutions. He has completed a few half-marathons and is aiming to complete a full marathon one day - probably while listening to his favorite podcasts!

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What is Artificial Intelligence?

What is artificial intelligence (AI)?

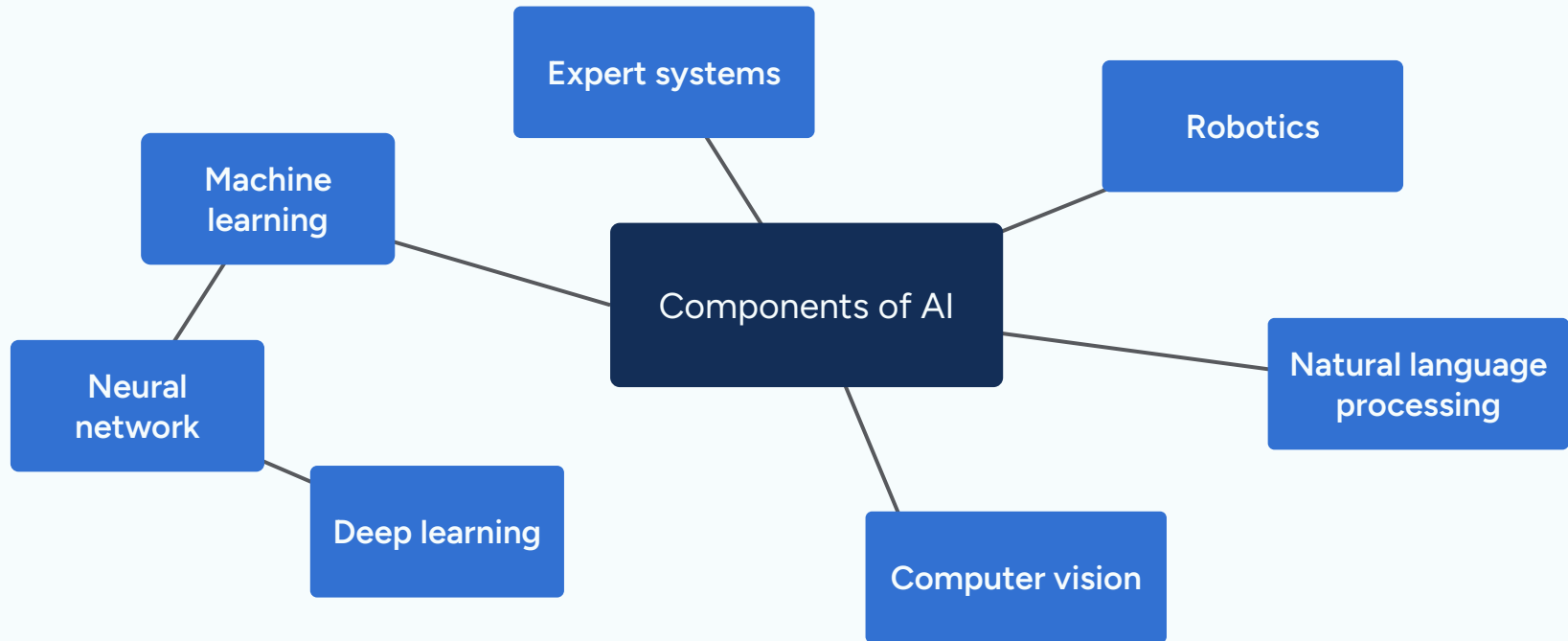Artificial intelligence (AI) systems are designed to mimic human intelligence and learning

General AI	Narrow AI

Artificial intelligence that can theoretically be applied to many domains, solving any potential problem
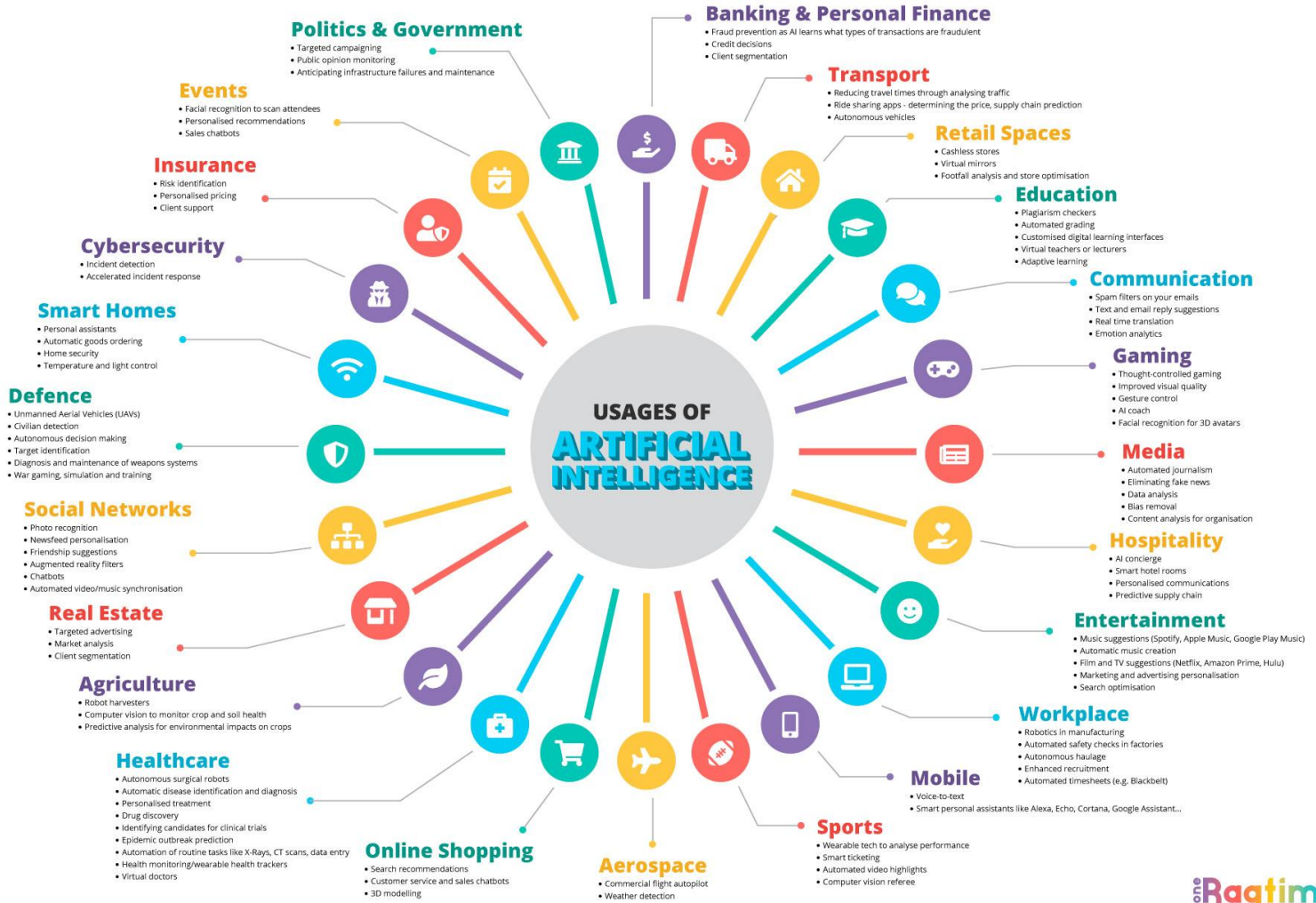
Artificial intelligence that is applied to a specific domain or problem

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What is artificial intelligence (AI)?

Artificial intelligence (AI) systems are designed to mimic human intelligence and learning

- Expert systems
- Robotics
- Machine learning
- Components of AI
- Natural language processing
- Neural network
- Deep learning
- Computer vision

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USAGES OF ARTIFICIAL INTELLIGENCE

Politics & Government
- Targeted campaigning
- Public opinion monitoring
- Anticipating infrastructure failures and maintenance

Banking & Personal Finance
- Fraud prevention as AI learns what types of transactions are fraudulent
- Credit decisions
- Client segmentation

Transport
- Reducing travel times through analysing traffic
- Ride sharing apps - determining the price, supply chain prediction
- Autonomous vehicles

Events
- Facial recognition to scan attendees
- Personalised recommendations
- Sales chatbots

Retail Spaces
- Cashless stores
- Virtual mirrors
- Footfall analysis and store optimisation

Insurance
- Risk identification
- Personalised pricing
- Client support

Education
- Plagiarism checkers
- Automated grading
- Customised digital learning interfaces
- Virtual teachers or lecturers
- Adaptive learning

Cybersecurity
- Incident detection
- Accelerated incident response

Communication
- Spam filters on your emails
- Text and email reply suggestions
- Real time translation
- Emotion analytics

Smart Homes
- Personal assistants
- Automatic goods ordering
- Home security
- Temperature and light control

Gaming
- Thought-controlled gaming
- Improved visual quality
- Gesture control
- AI coach
- Facial recognition for 3D avatars

Defence
- Unmanned Aerial Vehicles (UAVs)
- Civilian detection
- Autonomous decision making
- Target identification
- Diagnosis and maintenance of weapons systems
- War gaming, simulation and training

Media
- Automated journalism
- Eliminating fake news
- Data analysis
- Bias removal
- Content analysis for organisation

Social Networks
- Photo recognition
- Newsfeed personalisation
- Friendship suggestions
- Augmented reality filters
- Chatbots
- Automated video/music synchronisation

Hospitality
- AI concierge
- Smart hotel rooms
- Personalised communications
- Predictive supply chain

Real Estate
- Targeted advertising
- Market analysis
- Client segmentation

Entertainment
- Music suggestions (Spotify, Apple Music, Google Play Music)
- Automatic music creation
- Film and TV suggestions (Netflix, Amazon Prime, Hulu)
- Marketing and advertising personalisation
- Search optimisation

Agriculture
- Robot harvesters
- Computer vision to monitor crop and soil health
- Predictive analysis for environmental impacts on crops

Workplace
- Robotics in manufacturing
- Automated safety checks in factories
- Autonomous haulage
- Enhanced recruitment
- Automated timesheets (e.g. Blackbelt)

Healthcare
- Autonomous surgical robots
- Automatic disease identification and diagnosis
- Personalised treatment
- Drug discovery
- Identifying candidates for clinical trials
- Epidemic outbreak prediction
- Automation of routine tasks like X-Rays, CT scans, data entry
- Health monitoring/wearable health trackers
- Virtual doctors

Mobile
- Voice-to-text
- Smart personal assistants like Alexa, Echo, Cortana, Google Assistant...

Online Shopping
- Search recommendations
- Customer service and sales chatbots
- 3D modelling

Aerospace
- Commercial flight autopilot
- Weather detection

Sports
- Wearable tech to analyse performance
- Smart ticketing
- Automated video highlights
- Computer vision referee
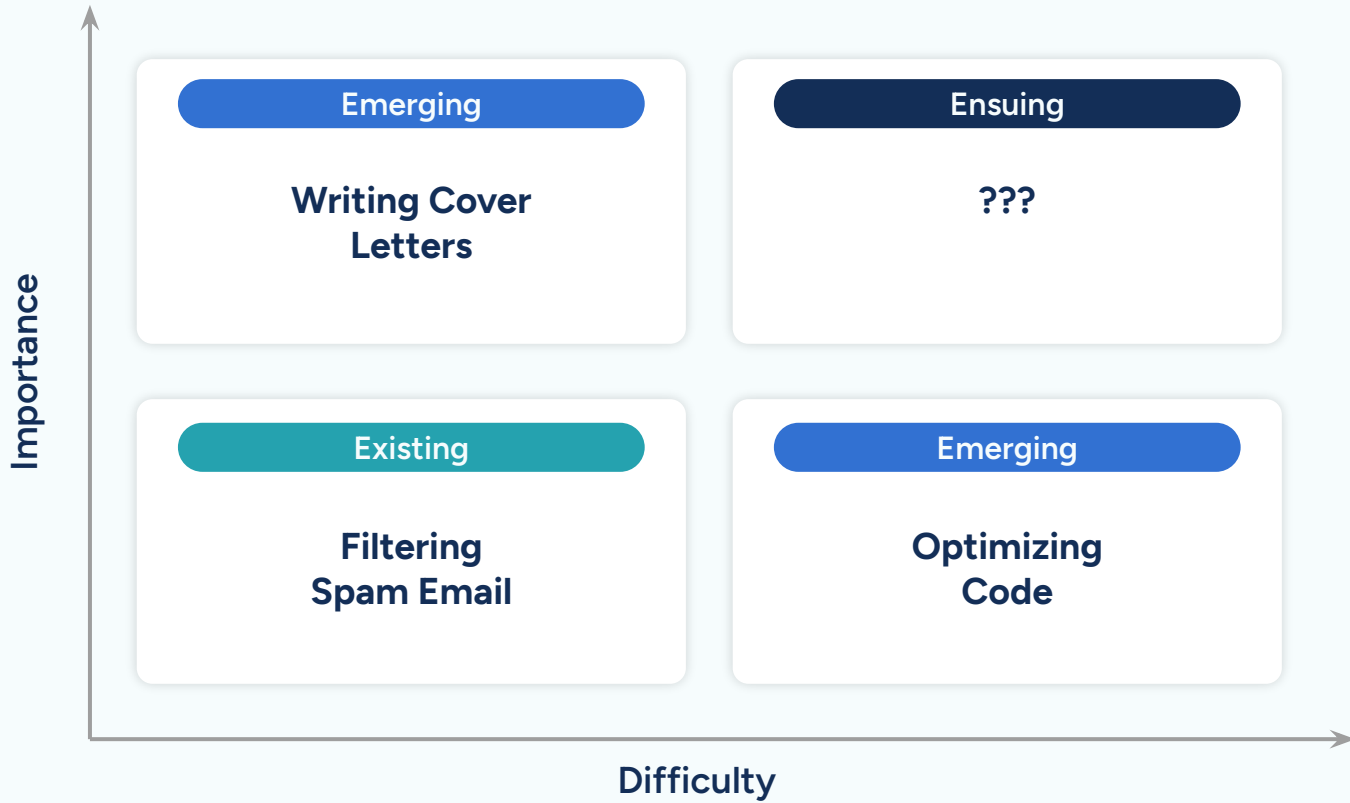
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oneRagtime

Why should you care?

Artificial intelligence continues to transform the way we live, work and interact with each other

| 1 | AI is already ingrained in our daily lives at work and at home |

| 2 | AI is becoming standard in all businesses, not just in the tech industry |

| 3 | As AI becomes more pervasive its important to understand its benefits and risks |

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Artificial Intelligence Meets the Finance & Banking Industry

AI is making a big impact in finance

The finance industry creates so much data.

Investment Banks	Asset Managers
Retail Banks	Wealth Managers
Custodian Banks	Payment Providers
Insurance Underwriters	Infrastructure Providers

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Artificial Intelligence in Finance

Compliance   Fraud detection and AML monitoring

Risk Management   Monitoring data and alerting risk managers to potentially unacceptable risks

Consumer Banking   Improving time- and cost-efficiency through chatbot usage rather than call centres

Wealth Management   Helping wealth managers managers create tailored solutions for their clients

IB and Deal Making   Identifying companies that need to raise capital or are candidates for acquisitions

Trading   Algorithmic trading strategies or generating trading signals through sentiment analysis

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Future of Artificial Intelligence

Ethics & Governance of AI Tools

Bias in Black Box Models

Data quality issues of model input can create biased model output.

Can the output of black box models be explained?

Lack of Accountability & Regulation

Behavior of models can be unpredictable and it is increasingly challenging for regulators to keep pace.

"...recent months have seen AI labs locked in an out-of-control race to develop and deploy ever more powerful digital minds that no one – not even their creators – can understand, predict, or reliably control."

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Artificial Intelligence - Here to Help

What does this mean for the future?

Artificial Intelligence is a tool, not a threat

"choose to feel anxious about AI, or empowered to learn about it and use it to their advantage"

What transferable skills do we already possess?

It is important to be ahead of the curve

"Technology advancements have shown us that, yes, technology has the potential to automate or streamline work processes. However, with the right set of skills, individuals are often able to progress alongside these advancements"

What skills will we need to acquire?
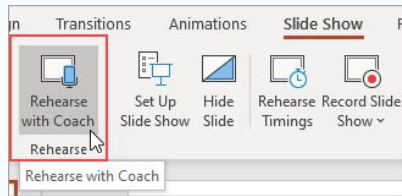
Q&A

Artificial Intelligence Tools

PowerPoint Speaker Coach

Evaluates your pacing, use of filler words, informal speech, and culturally sensitive terms.

Detects when you're being overly wordy or are simply reading the text on a slide.

After each rehearsal, you get a report that includes statistics and suggestions for improvements.

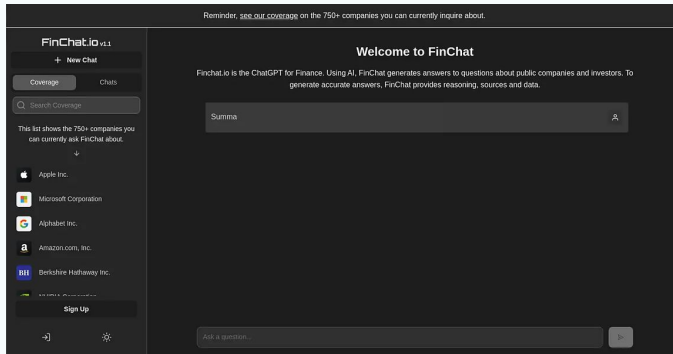Learn more in this [Microsoft article](#).

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Artificial Intelligence Tools

finchat.io   Finchat.io is the ChatGPT for Finance.

Using AI, FinChat generates answers to questions about public companies and investors.

To generate accurate answers, FinChat provides reasoning, sources and data.

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Thank you for attending!

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