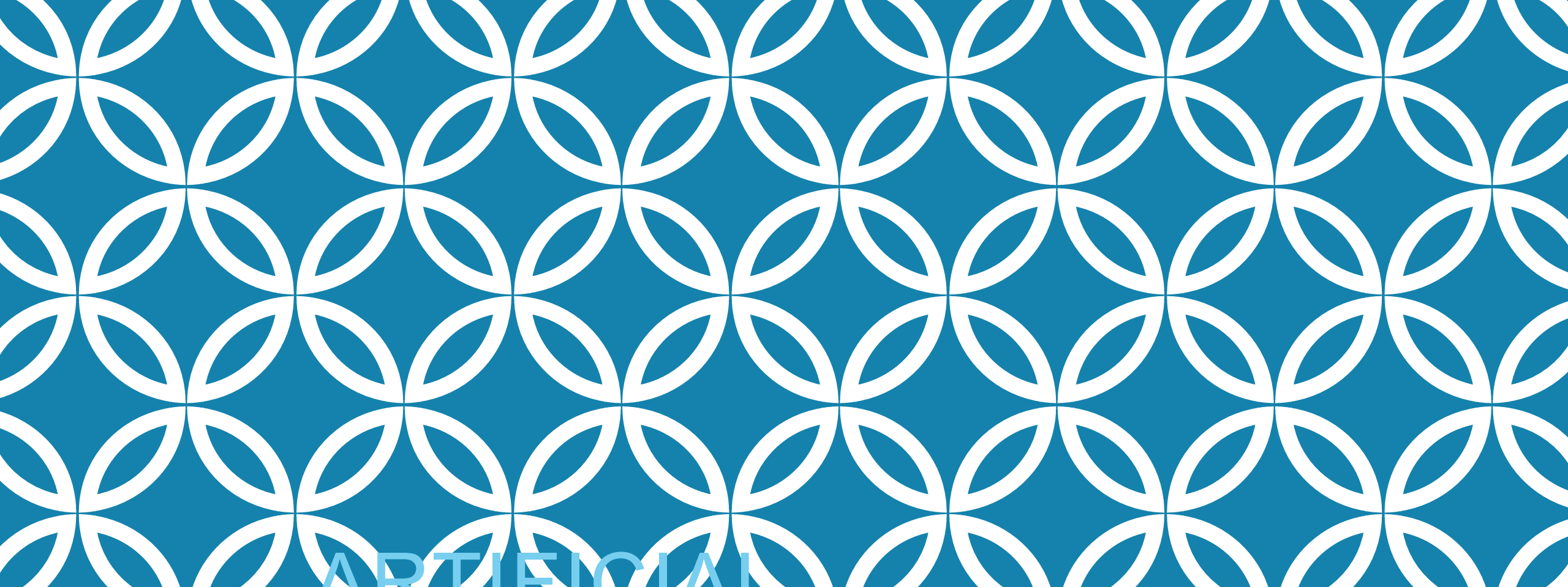


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# ARTIFICIAL INTELLIGENCE IN HUMAN RESOURCE MANAGEMENT

Adelia Gafurova | Noelia Medina Jurado | Taher Al-ahwal



# WHAT IS ARTIFICIAL INTELLIGENCE (AI)?

Development of “thinking” computer systems

Deep Learning

Machine Learning

Predictive Analytics

Image Recognition

Neural network(s)

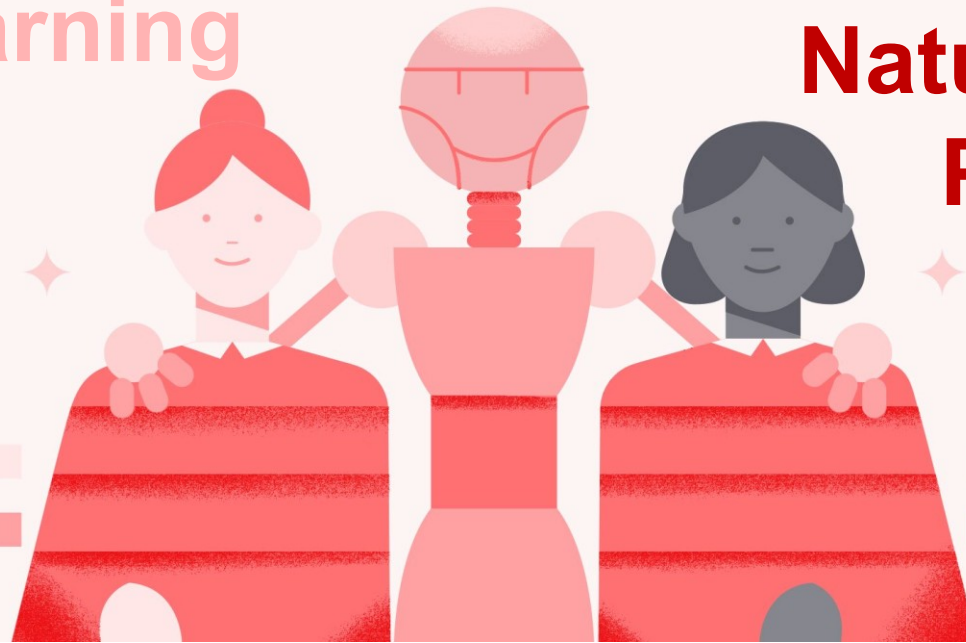
Natural Language Processing

Robotics

Expert Systems

Knowledge Engineering

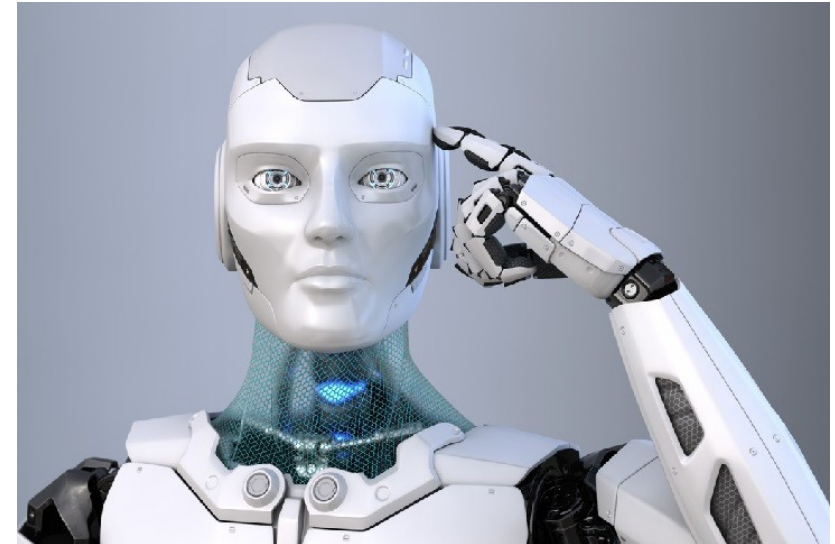
Process Automation



# WHAT IS ARTIFICIAL INTELLIGENCE (AI)?

## Definition:

- ❑ AI is the ability of a machine to perform cognitive functions associated with human minds (such as perceiving, reasoning, learning, and problem solving), includes a range of capabilities that enable AI to solve business problems – by the *use of algorithms*.
- ❑ AI is pushing humans and machines closer together.

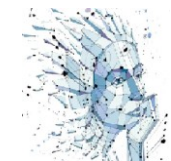


**Is it?!**



# WHERE IS AI USED?

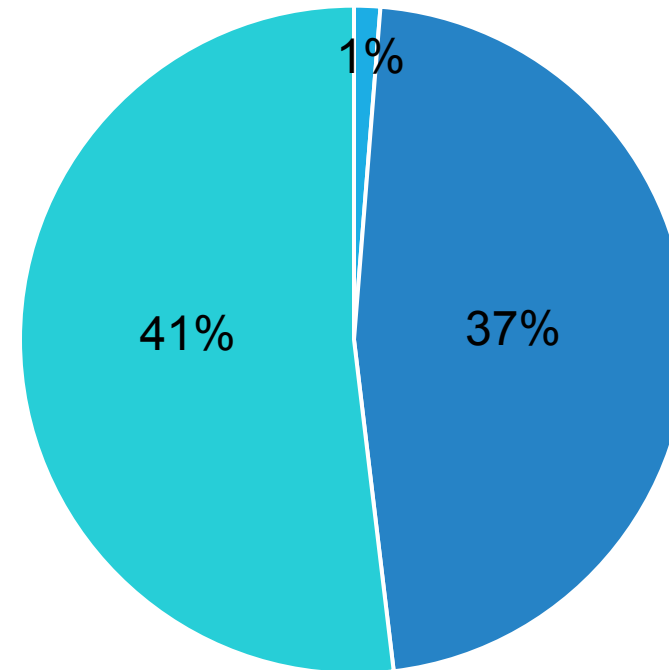
- Wherever tasks call for intelligent, analysis-based behavior.
- Main uses in:
  - ❖ Telecom
  - ❖ High-tech
  - ❖ Financial services
- 2017 : 20% used AI
- 2018 : 47% used AI
- Popularity of AI is increasing.



# DOES AI HAVE ADDED-VALUE?

Adding Value to Businesses by Using AI

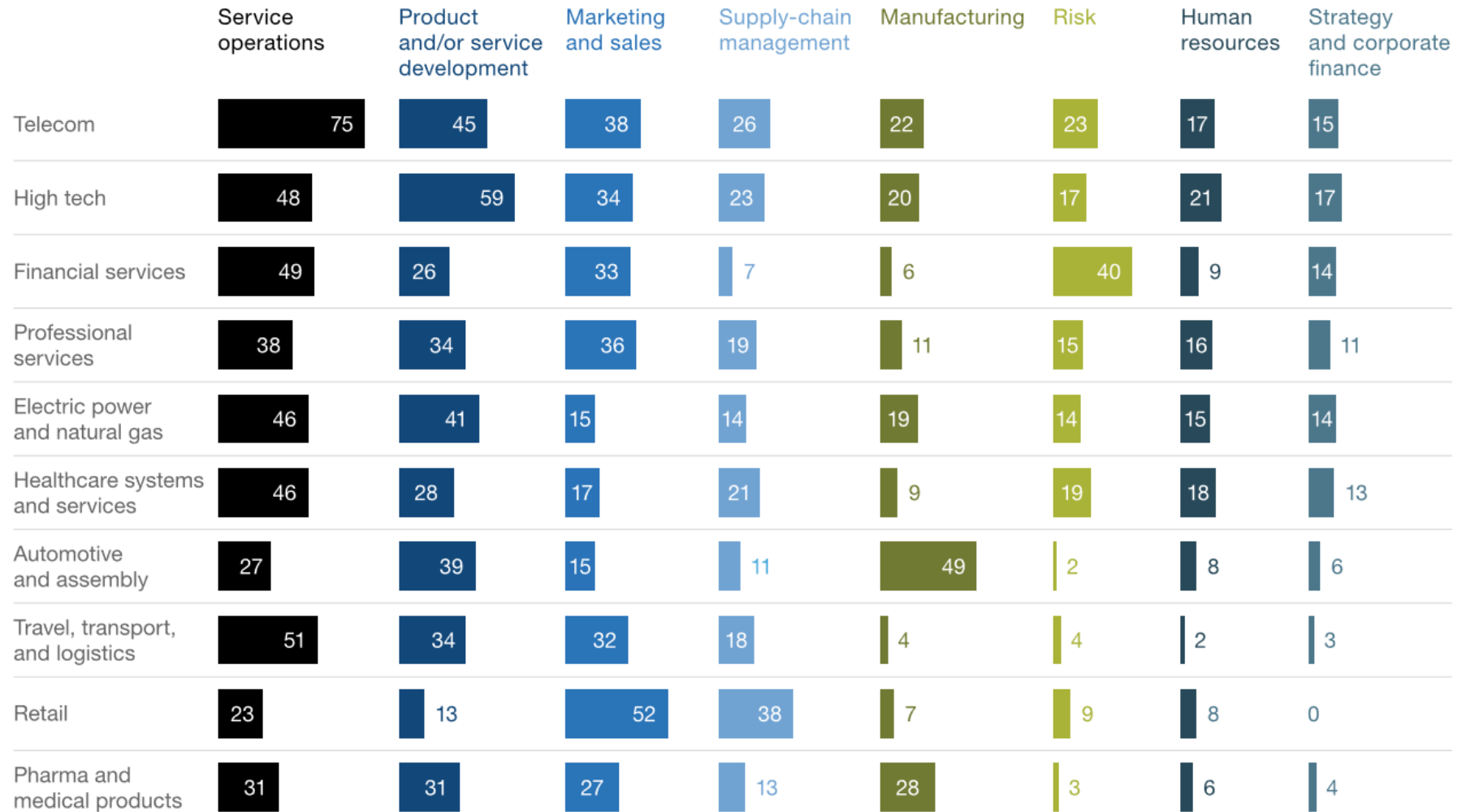
McKinsey & Company  
Global Survey:



■ No or Little Value ■ Moderate Value ■ Significant Value



# AI IN DIFFERENT BUSINESS FUNCTIONS?



# AI IN HR

- ❑ **Recruitment (Talent Acquisition)**
- ❑ **Automation of Administrative Tasks**
- ❑ **Onboarding**
- ❑ **Employee Training**
- ❑ **Retention**
- ❑ **Knowledge Sharing**

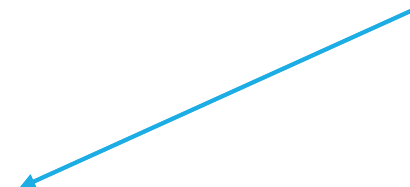
Exploring  
AI-supporting  
applications designed  
to improve operations







What does that mean??



# 1. RECRUITMENT (TALENT ACQUISITION)

- ❑ The ability to identify suitable candidates accordingly to Job Descriptions.
- ❑ Speeding up the preliminary screening processes (100's of applications in fraction of time). Is there a problem??!  
YES. Possible Loss of Creativity would go unrecognized
- ❑ AI helps eliminate human bias.
- ❑ Managers use AI to search database of past applications of new positions.
- ❑ According to Forbes, by using AI 16% increase in competitive advantage in talent acquisition.



## 2. AUTOMATION OF ADMINISTRATIVE TASKS

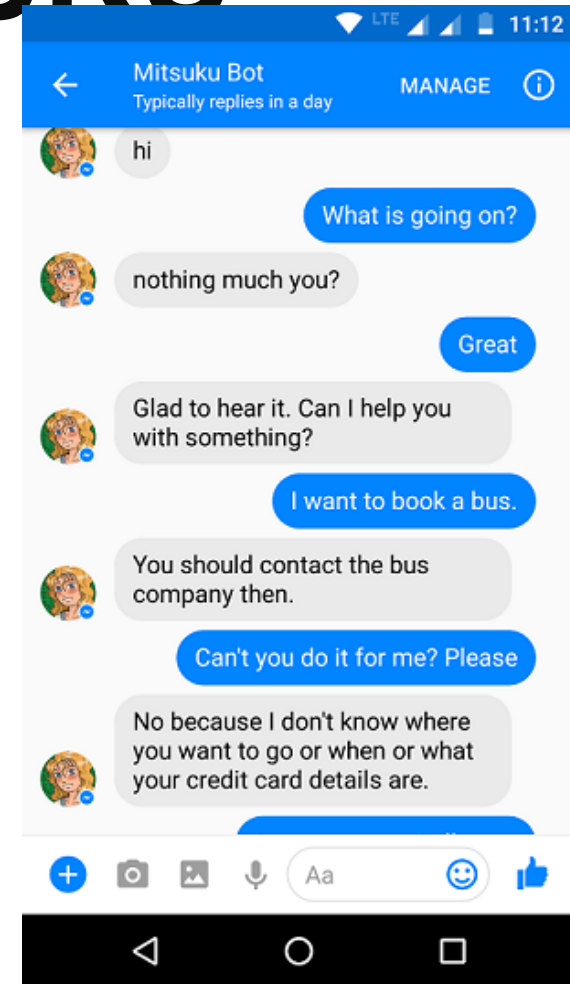
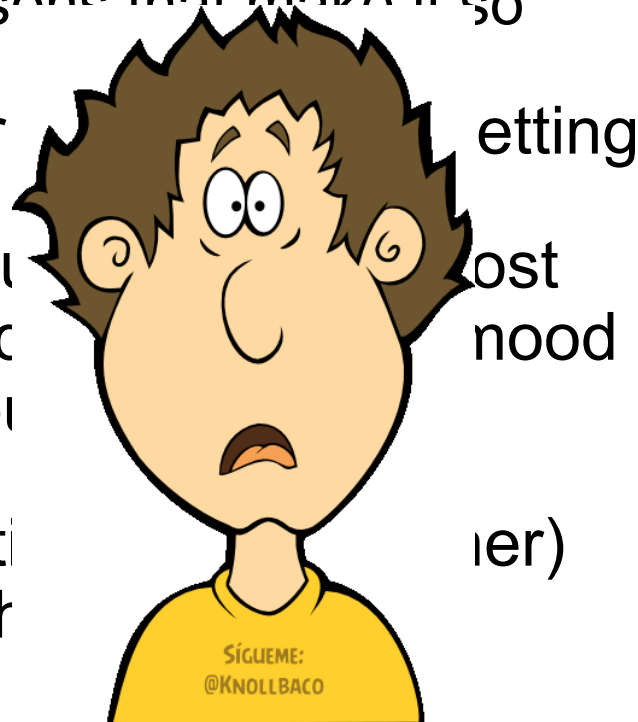
- ❑ Pre-screening questions and interview scheduling to speed up recruitment process.
- ❑ Allocating office space and providing certain equipment saves HR staff time.
- ❑ Study shows 19% increase in effectiveness in administrative tasks done by HR using AI-support
- ❑ Use of smart chatbots to provide quick answers to employees of company-related information.
- ❑ Chatbots give HR staff a holistic view of the organization.

What is a smart chatbot?



# 2. AUTOMATION OF ADMINISTRATIVE TASKS

- ❑ It is a bot made to chat about anything, which is one of the main reasons that make it so human-like
- ❑ Talk to Mitsuku for getting bored.
- ❑ It replies to your questions in a most humane way and understands you in the language you speak (most noodier)
- ❑ AI annual competition awarded to Mitsuku chatbot



## 2. AUTOMATION OF ADMINISTRATIVE TASKS

- ❑ Employee doubts about policies and procedures can be resolved by way of simple queries with prompt answers.
- ❑ Submission and processing of leave forms.
- ❑ Decreasing 'low-value' tasks helps HR focus/improve workplace bonds and relationships.

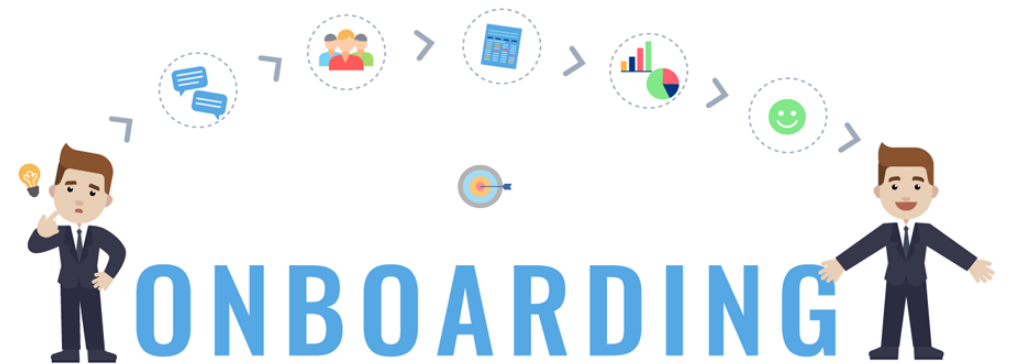


# 3. ONBOARDING

□ With the use of artificial intelligence, onboarding can be customized to individual employees, their positions, and their needs.

□ AI algorithms can be used for:

- ❖ briefing about job profile, tasks, benefits
- ❖ informing employees about important company contacts
- ❖ identifying and answering repetitive employee questions
- ❖ verifying documents



# 3. ONBOARDING

- ❑ A crucial part of successful employment.
- ❑ Glassdor: strong onboarding improves new hire retention by 82% and increases productivity by 70%
- ❑ Click Onboarding: ~ 75% of employees “are more likely to stay with a company for three years if they experienced great onboarding.”



# 4. EMPLOYEE TRAINING

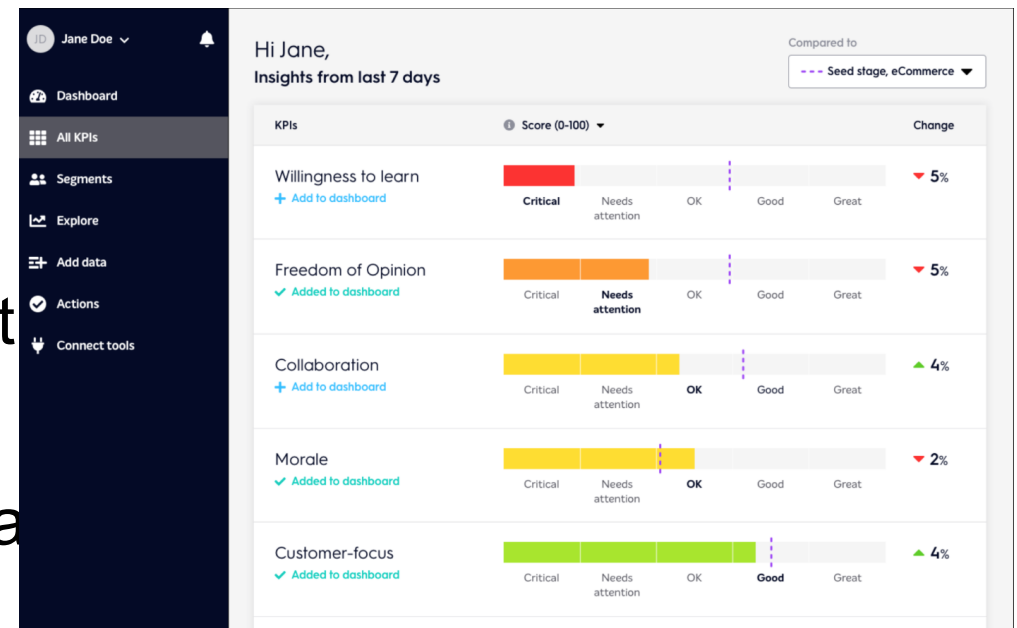
- ❑ Use of large databases of job profiles and skills to tailor training programs.
- ❑ Personalized training to fill skill gaps and polish existing ones.
- ❑ Career pathing: draw possible career directions.





# 5. RETENTION

- ❑ AI-based analysis of individual preferences and employee performance helps HR Dept. identify who should get a raise and who is likely to resign.
- ❑ AI applications predict which employee plans to quit, with 95% accuracy, e.g, IBM AI Tech.
- ❑ Identifying who might quit helps HR Dept decrease talent lose.
- ❑ Retention-oriented AI technologies prepare surveys and reward systems.

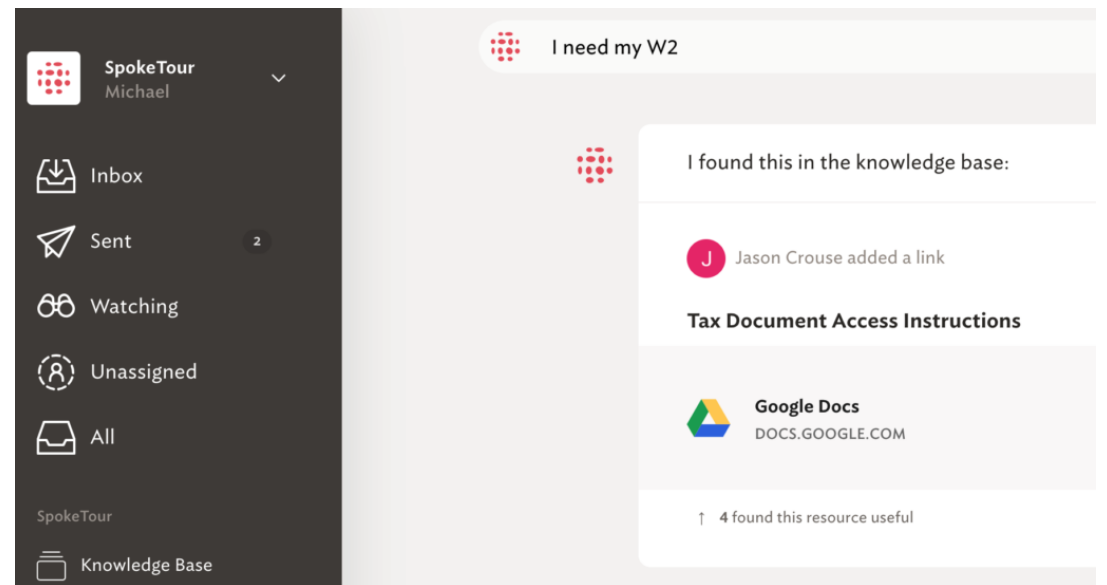


*[Bunch.ai](#) app - real-time culture and employee engagement insights*



# 6. KNOWLEDGE SHARING

- Use of new technologies—semantic search, natural language processing, and machine learning—to make it easier for employees to find the knowledge they're looking for quickly and easily.
- **AI-powered tools help you connect and combine knowledge across multiple systems**, giving all employees access to knowledge regardless of where it lives.



# POPULAR AI APPLICATIONS FOR HR

- ❑ **TextRecruit** – recruiting automation
- ❑ **GoHire** – recruiting automation
- ❑ **Workday** – focuses on leveraging employees potential (retention and training).
- ❑ **Ascendify** - focuses on leveraging employees potential (retention and training).
- ❑ **Everwise** - focuses on leveraging employees potential (retention and training).
- ❑ **Spoke** – allows knowledge sharing across functions; helps HR keep employees' knowledge up to date.



# TO AI OR NOT TO AI?

- **Advantage:** AI improves HR processes; thus, increases productivity.
- **Challenges:**
  - ❖ lots of data has to be properly stored and managed
  - ❖ additional talent required to operate and maintain AI software
  - ❖ the dilemma of how to balance between human-centric management on one hand, and automated scalability on the other.



# DISCUSSION

Chris Taylor (Chief HR Officer at Amazon) says AI helps Human resources become more human because it handles repetitive, tedious and time-consuming tasks. Because HR is eventually going to be replaced by AI software, do you think having AI software will eventually turn us into a company's production line? Will it increase costs!



Buy Canada) become more "critical" for the rest of the

Humans, do you think decisions will increase or decrease operational costs?



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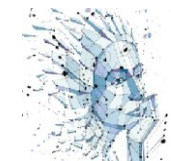
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Thank  
You

