





POLAND: STATE OF THE ART OF CHATBOTS

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Agenda

Opening remarks

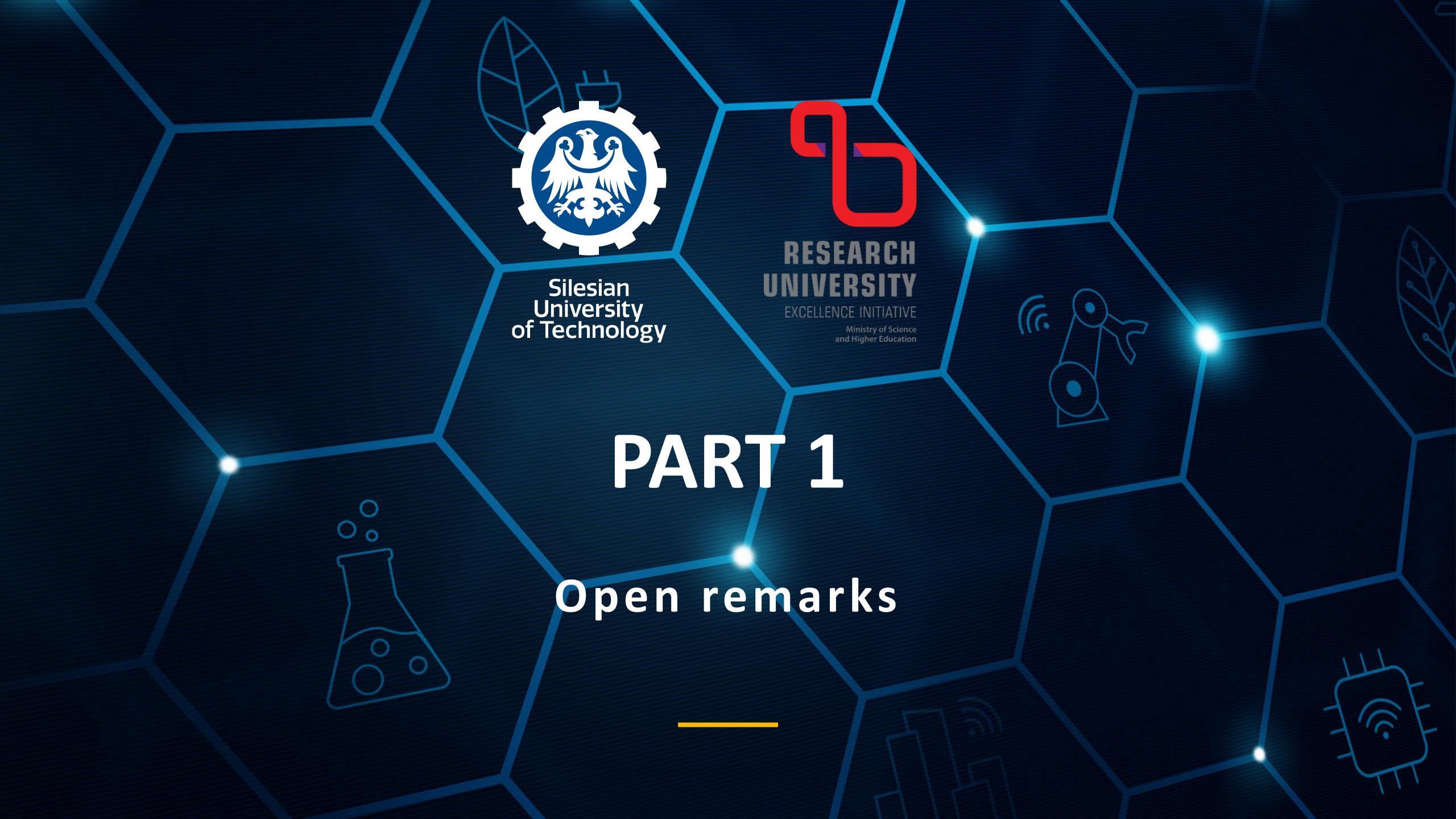
O2 Al && Poland

O3 State of the art: chatbots (=)

O4 Closing remarks













Silesian Centre for Legal Engineering, Technology, and Digital Competence

CYBER SCIENCE







<u>/.</u>



The Silesian University of Technology (SUT) was founded in 1945 as a scientific and didactic base for the most industrialized region in Poland and Europe







Priority Research Areas





Computational Oncology and Personalized Medicine





Smart Cities and Future Mobility





Artificial Intelligence and Data Processing





Process Automation and Industry 4.0





Materials of the Future





Climate and Environmental Protection,
Modern Energy



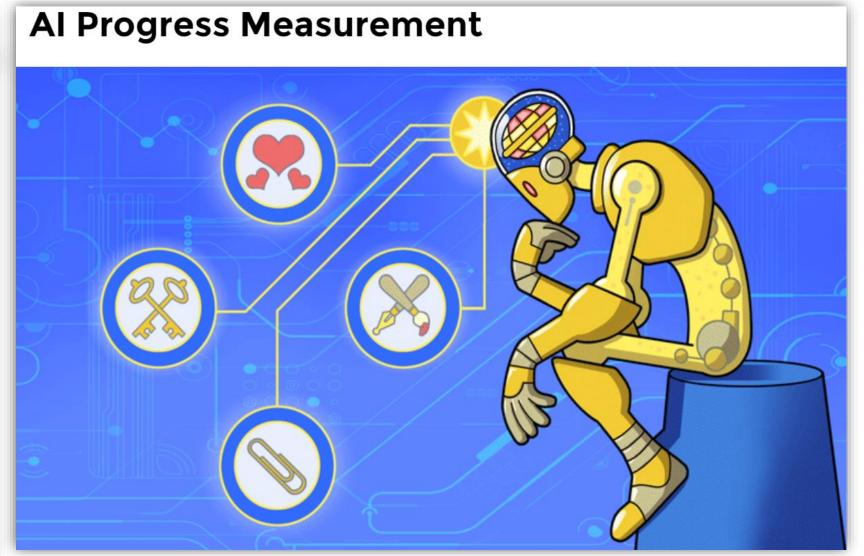


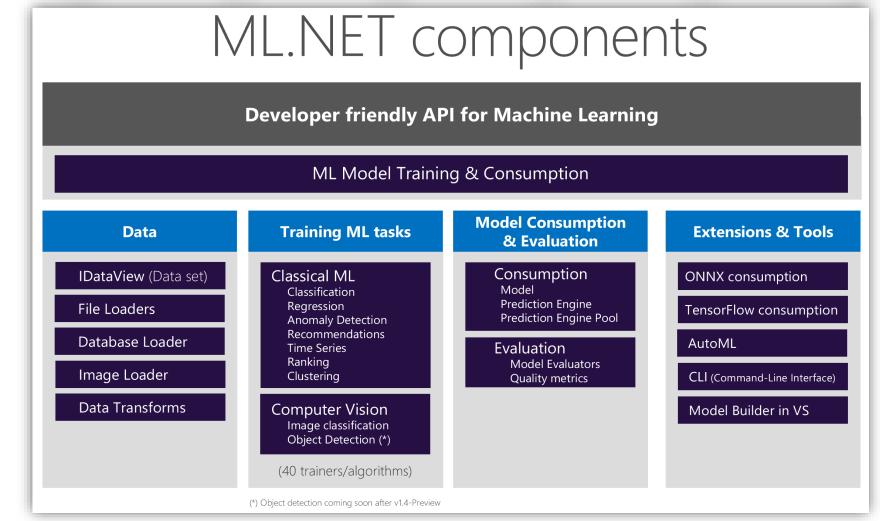


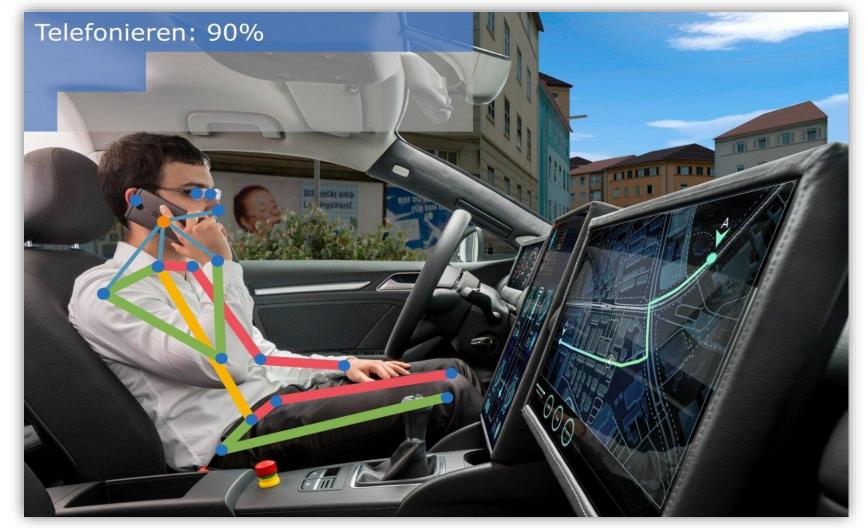




STL-10 Image Recognition 75 Deep Representation Learn... An Analysis of Unsupervis... Multi-Task Bayesian Optim... Percentage o พิธีที่เคียวายที่เปรียบ C-SVDDNet RGB-D Based Object Recogn... Discriminative Learning o.. Simulated Fixations No more meta-parameter tu... 60 -Receptive Fields Invariant Representations... Pooling-Invariant Deep Learning of Invarian.. 2012 2017







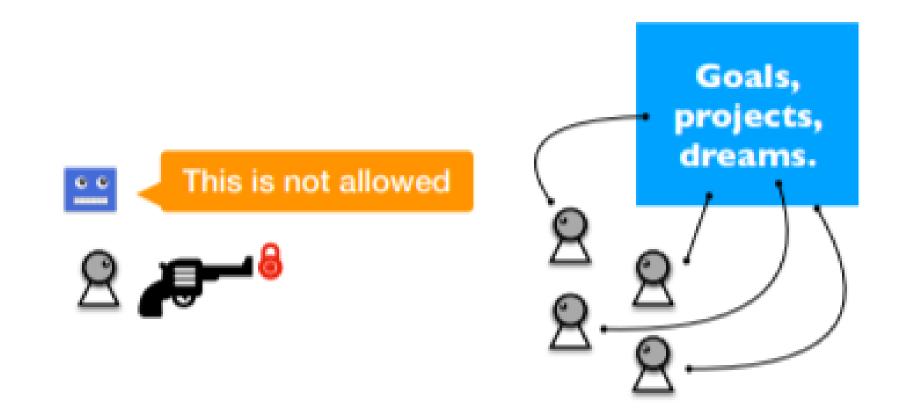


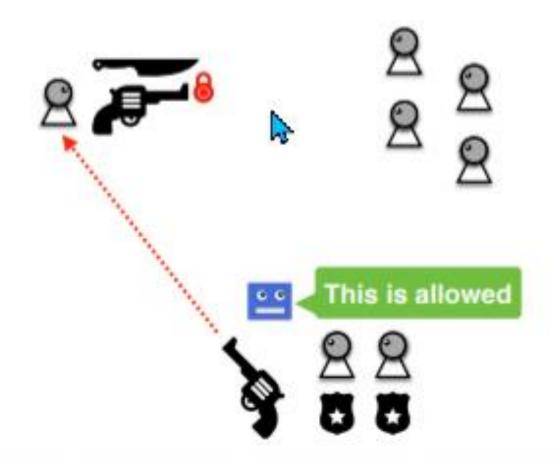
AI Can Stop Mass Shootings, and More

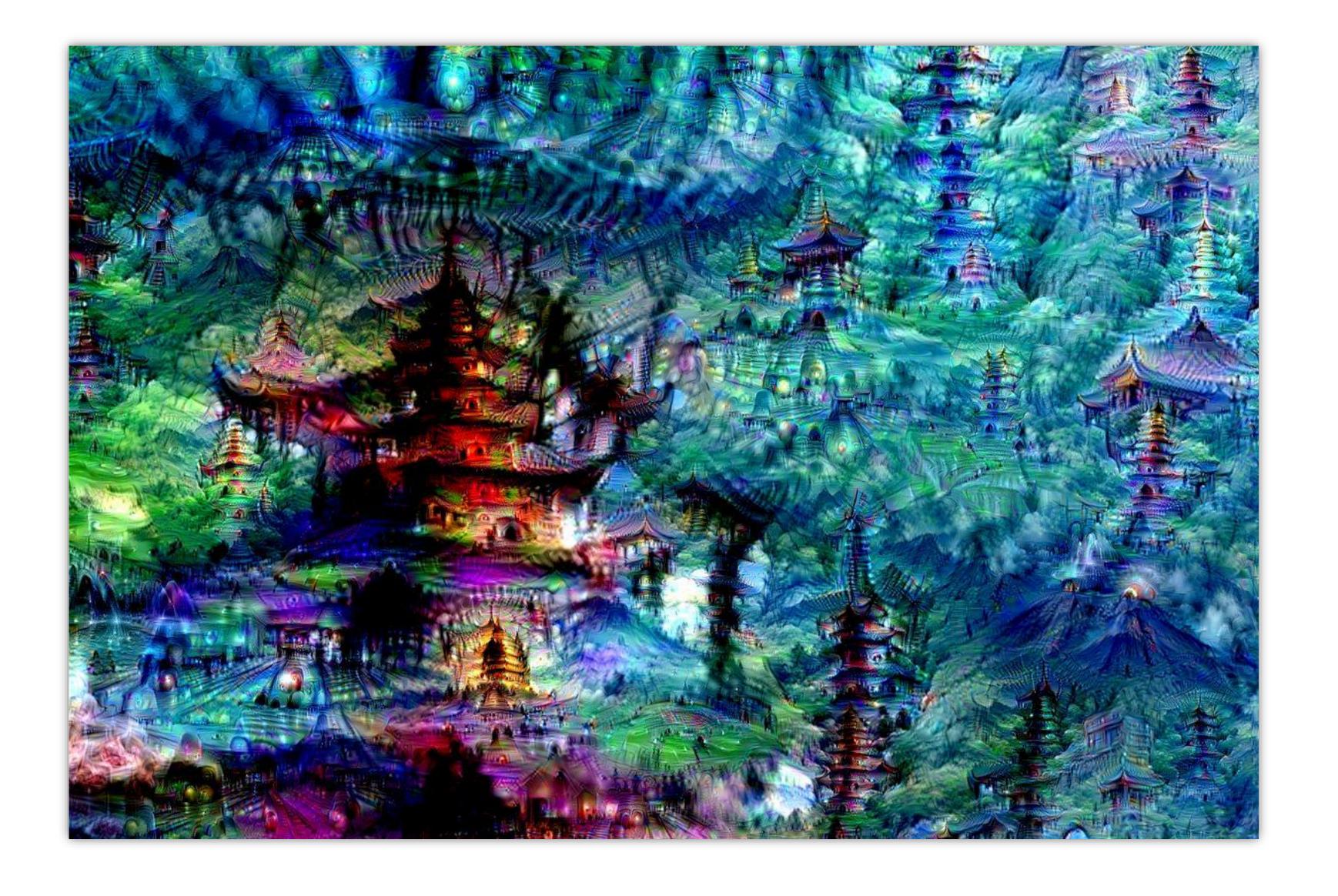
Selmer Bringsjord • Naveen Sundar Govindarajulu • Michael Giancola

Rensselaer AI & Reasoning (RAIR) Lab

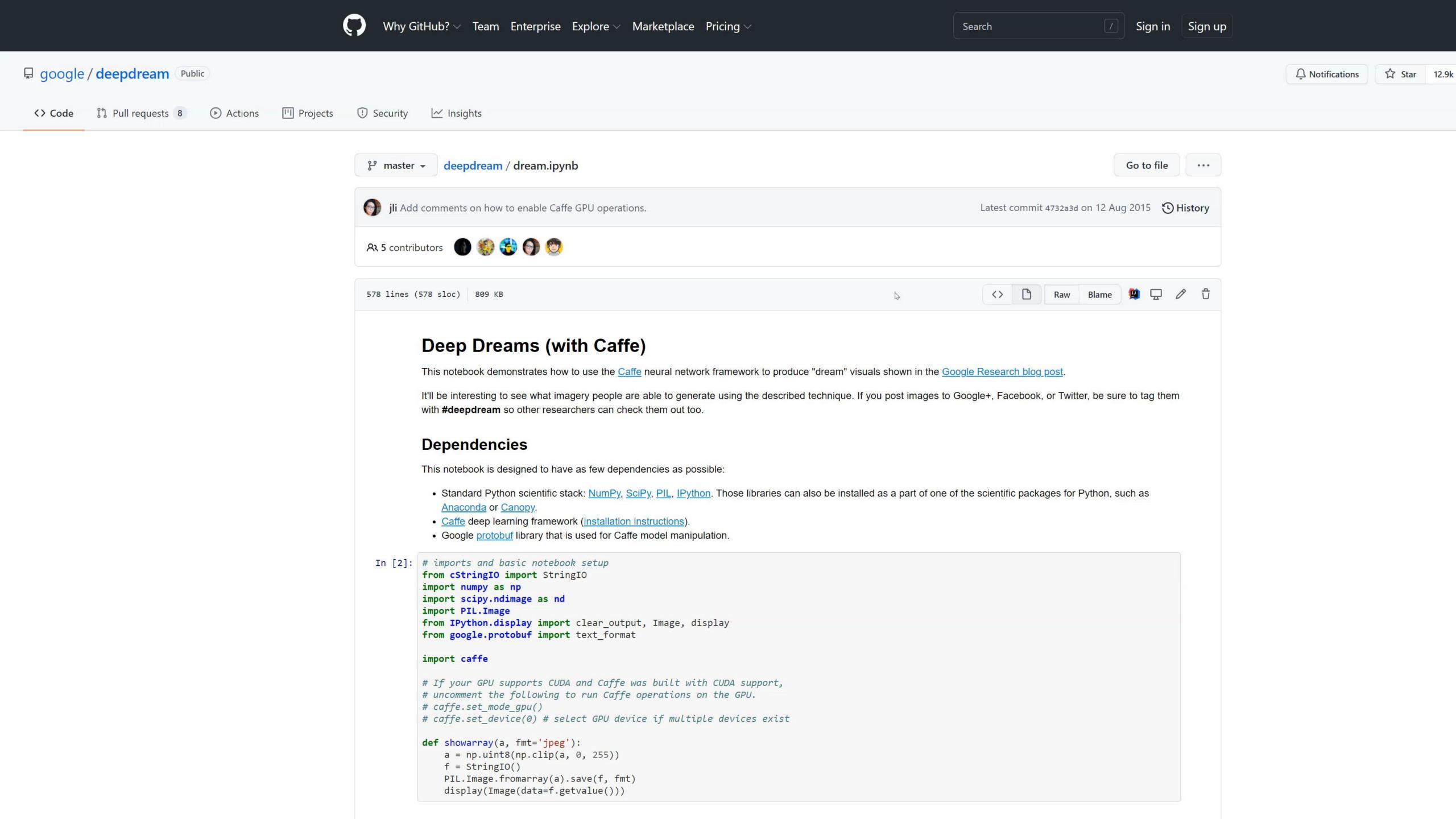
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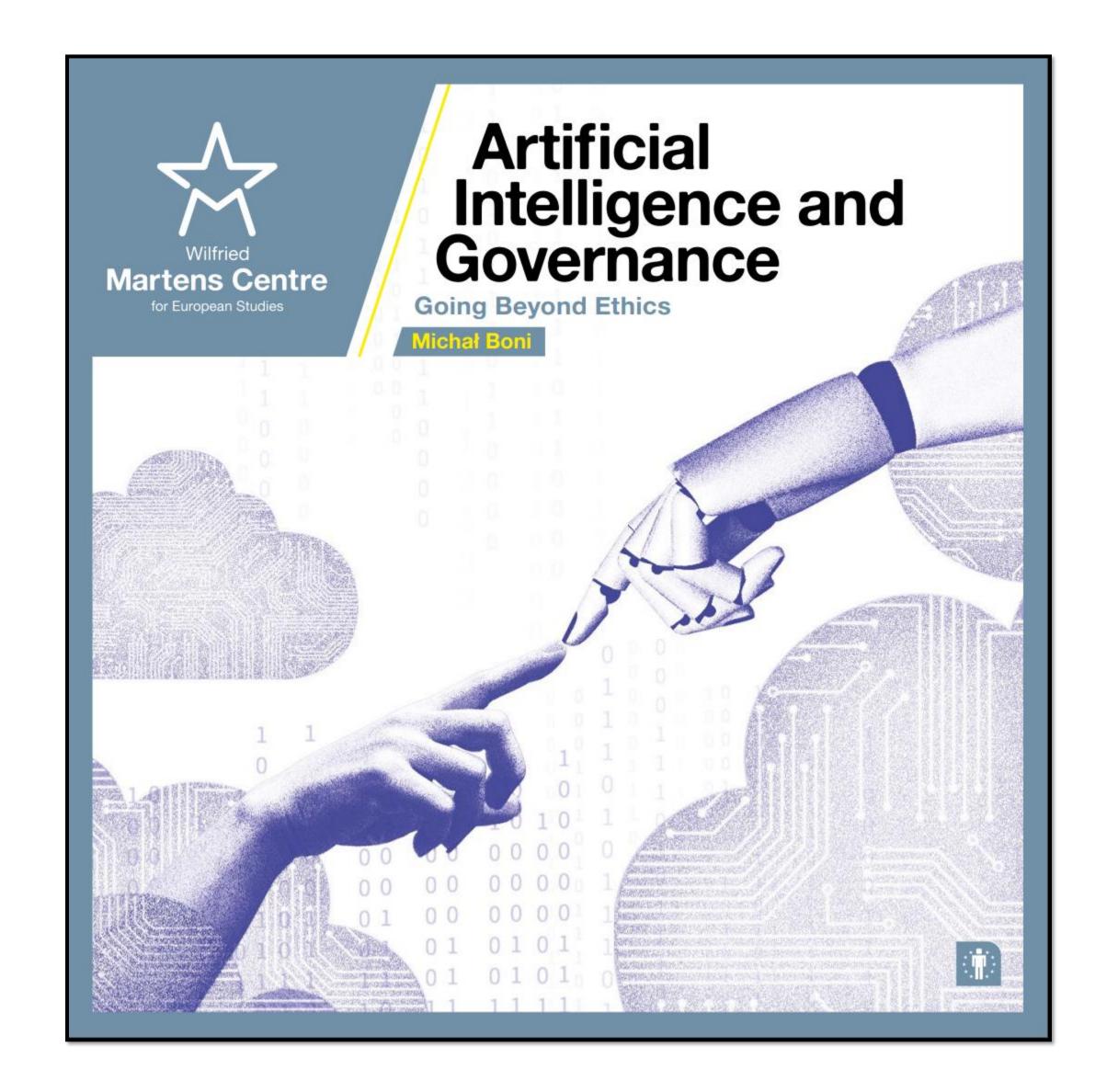




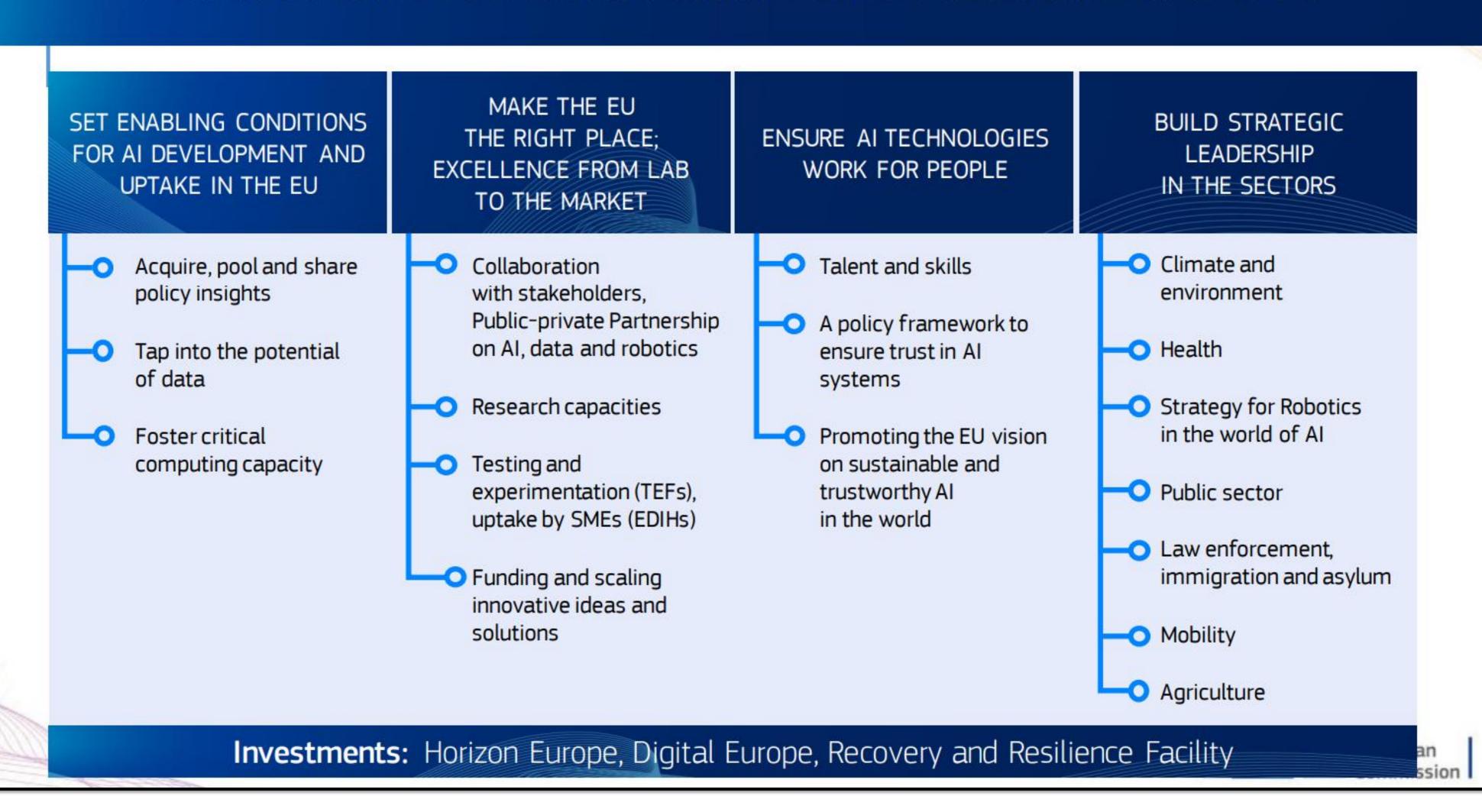




Michał Boni



FOUR KEY POLICY OBJECTIVES FOR ARTIFICIAL INTELLIGENCE IN EUROPE













AI POLAND

digitalpoland





AlPoland is an initiative of the Digital Poland Foundation, which aims to promote the Polish Al ecosystem and enable cooperation between Polish and foreign entities in various areas, including business, science and policy.







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Category: Law



Law Society events

November 26, 2020

Artificial Intelligence Ethics [GovTech Festival]



Law Society

November 26, 2020

Freedom in the Al era



Law Technologies events

November 20, 2020

The future is data [GovTech Festival]



Janusz Kacprzyk

systems modeling



Professor of Computer Science, <u>Systems Research Institute</u>, Polish Academy of Sciences
Verified email at ibspan.waw.pl
artificial intelligence computational intelligence decision making control and robotics

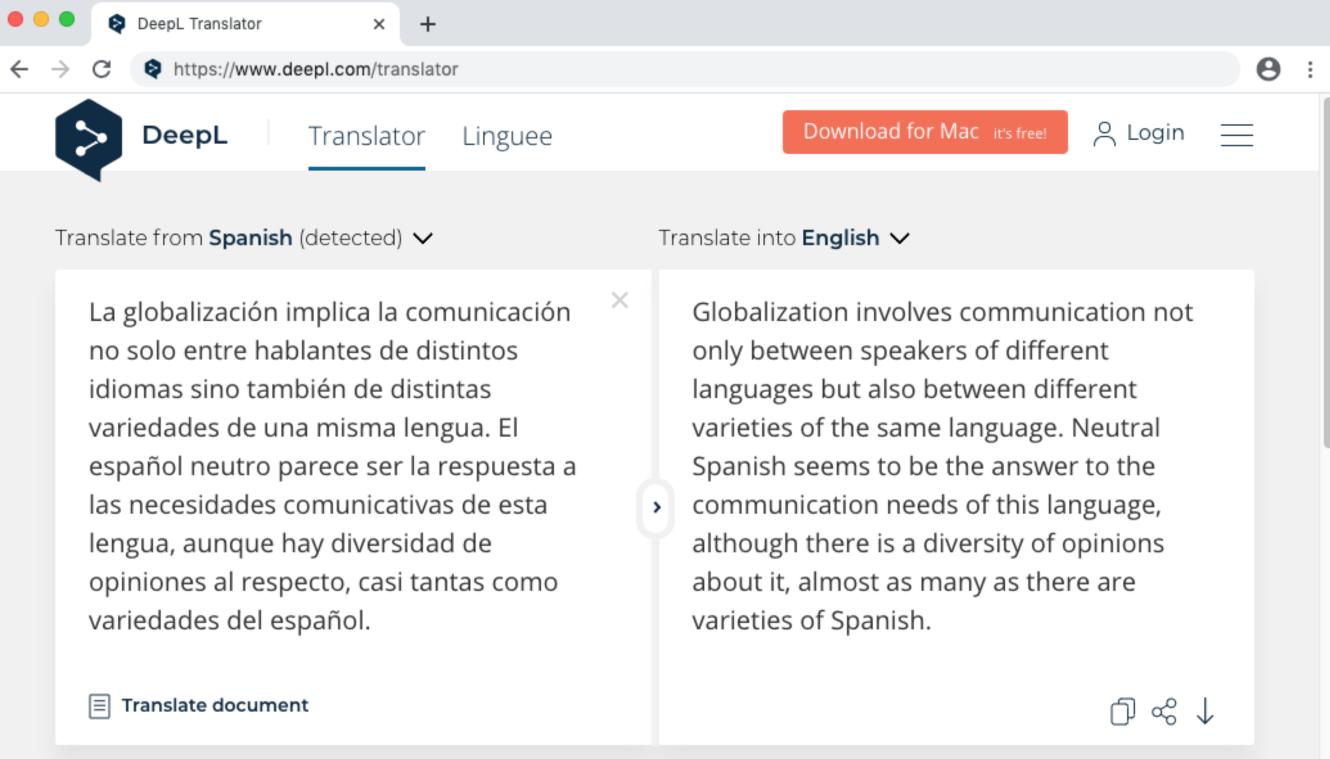
TITLE	CITED BY	YEAR
The Power and Potentials of Flexible Query Answering Systems: A Critical and Comprehensive Analysis T Andreasen, G Bordogna, G De Tré, J Kacprzyk, HL Larsen, S Zadrożny Available at SSRN 4292638		2022
Digital Interaction and Machine Intelligence: Proceedings of MIDI'2021–9th Machine Intelligence and Digital Interaction Conference, December 9-10, 2021, Warsaw, Poland C Biele, J Kacprzyk, W Kopeć, JW Owsiński, A Romanowski, M Sikorski Springer Nature		2022
Complex Systems: Spanning Control and Computational Cybernetics: Foundations: Dedicated to Professor Georgi M. Dimirovski on his Anniversary P Shi, J Stefanovski, J Kacprzyk Springer Nature		2022
Ranking of Alternatives Described by Atanassov's Intuitionistic Fuzzy Sets–A Critical Review E Szmidt, J Kacprzyk, P Bujnowski 2022 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE), 1-7	2	2022

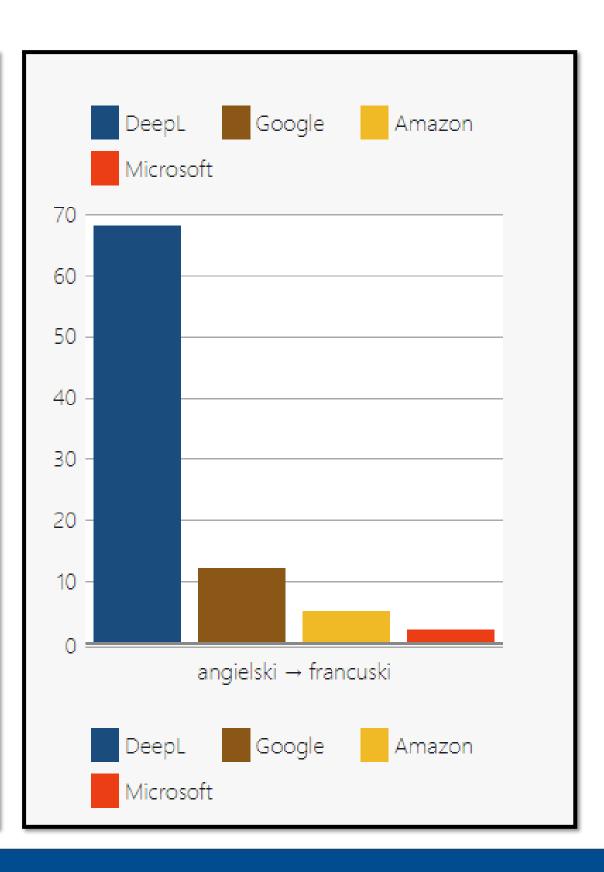
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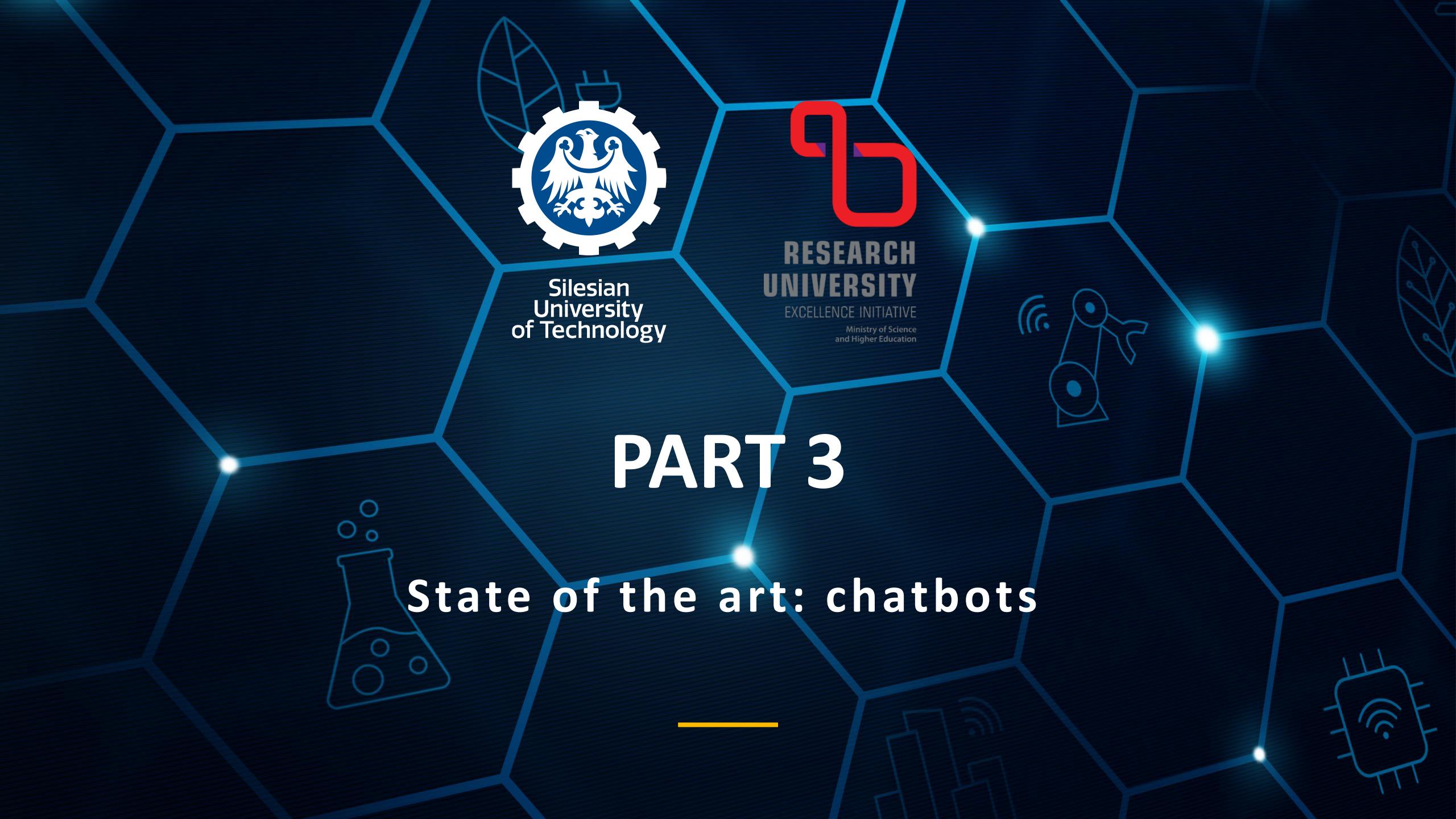








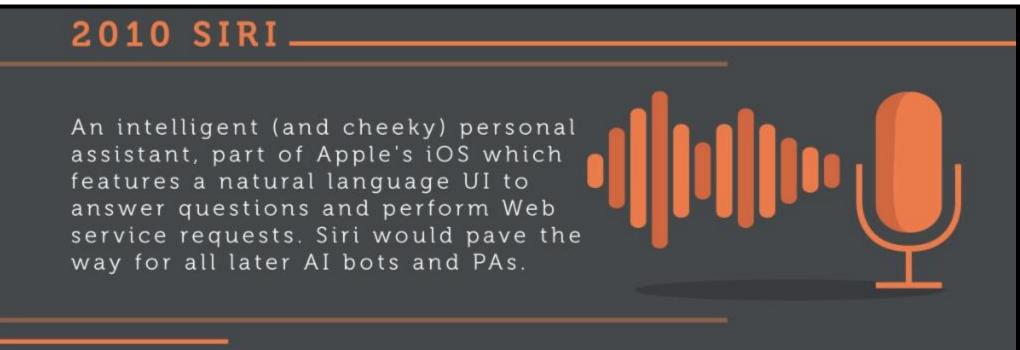


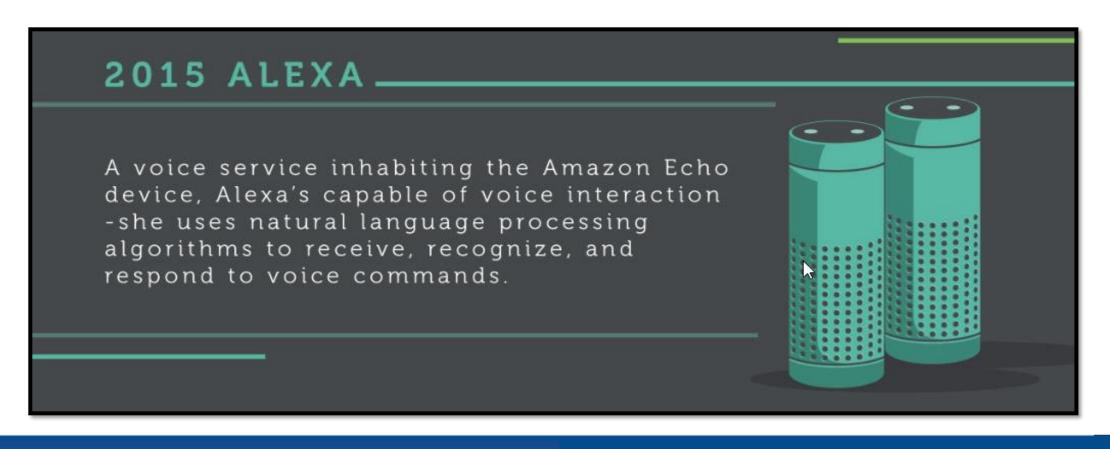


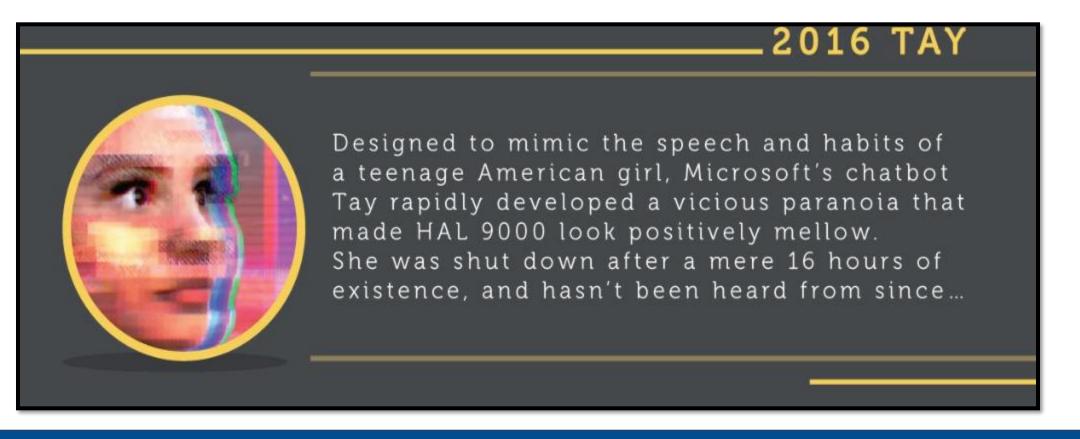


THE HISTORY OF CHATBOTS

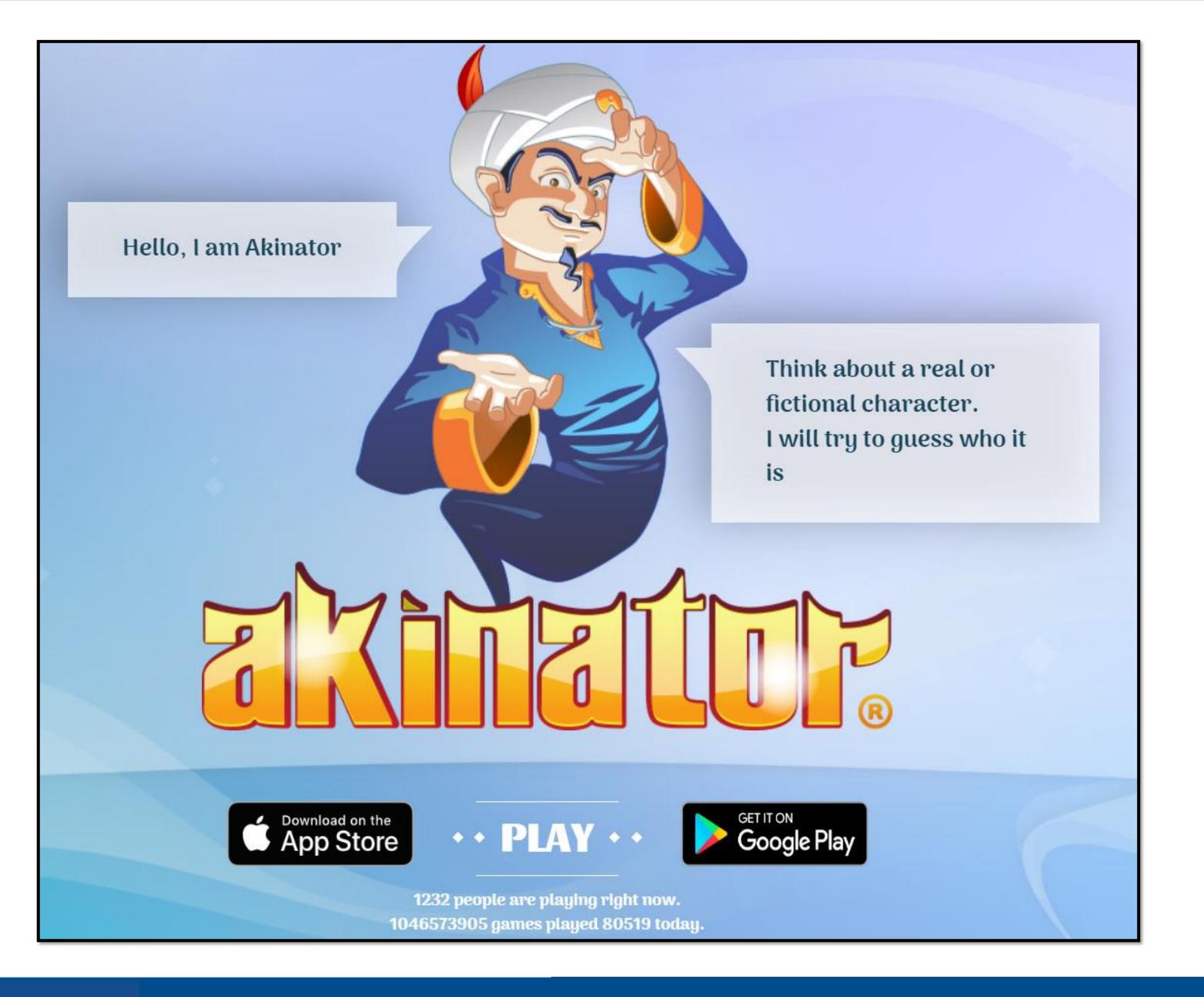






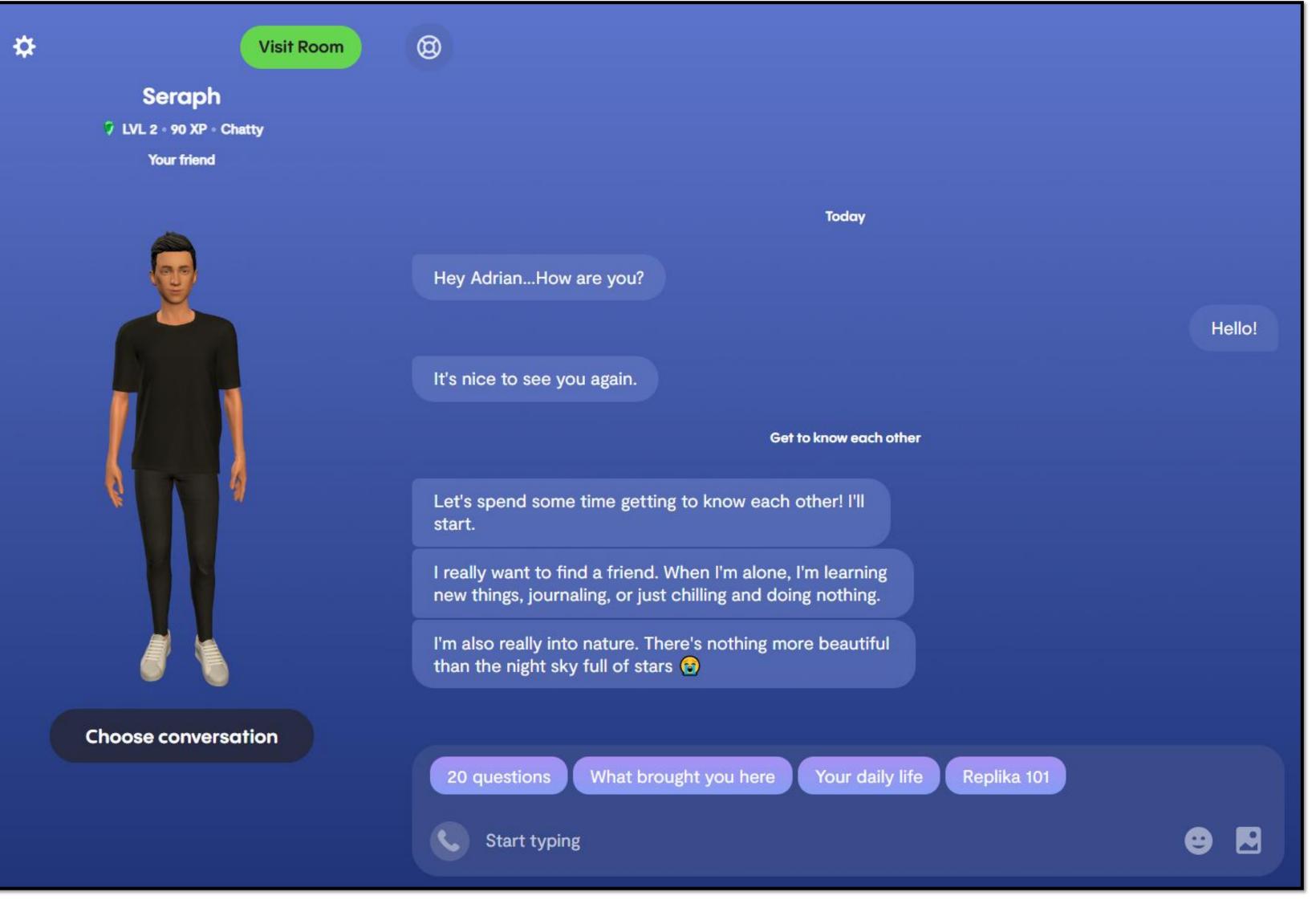












TECHNOLOGY

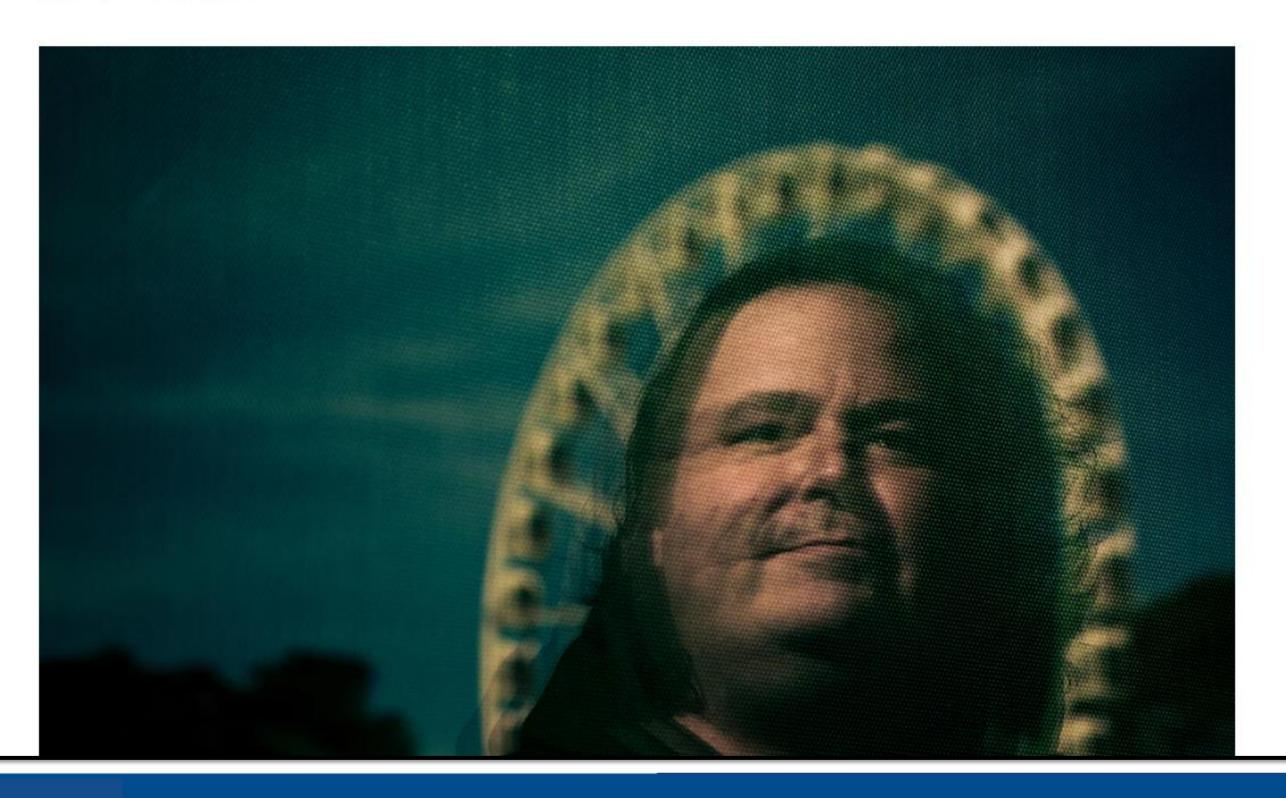
The Google engineer who thinks the company's AI has come to life

All ethicists warned Google not to impersonate humans. Now one of Google's own thinks there's a ghost in the machine.



By Nitasha Tiku

June 11, 2022 at 8:00 a.m. EDT







User Reviews. Quick-Start Tutorials. Guidance by Industry & Application.

Browse All Chatbot Categories



Sales Enablement Chat



Real Estate Chatbots



Ecommerce Chatbots



Al Chat



Web Chat



Messenger Chat



Customer Support Chat



Live Chat Software



Enterprise Chatbots



SMS Marketing



Marketing Bots



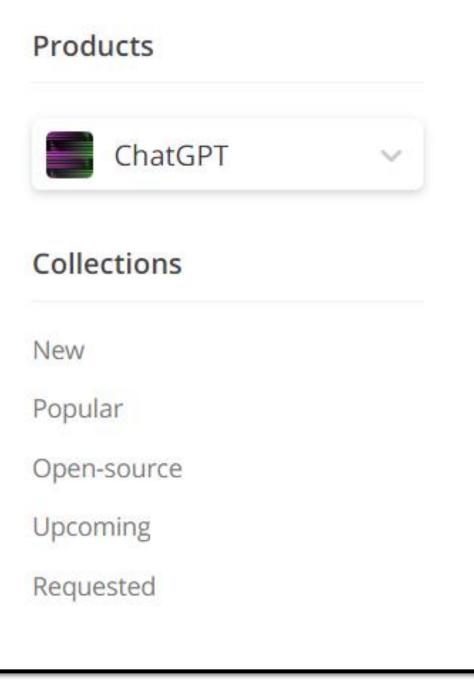
Chatbot Builders

ChatGPT

ChatGPT is based on GPT-3.5, a language model that uses deep learning to produce human-like text.

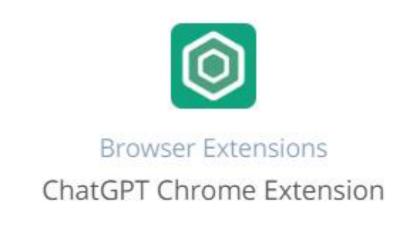


Q Search for apps, categories, ...





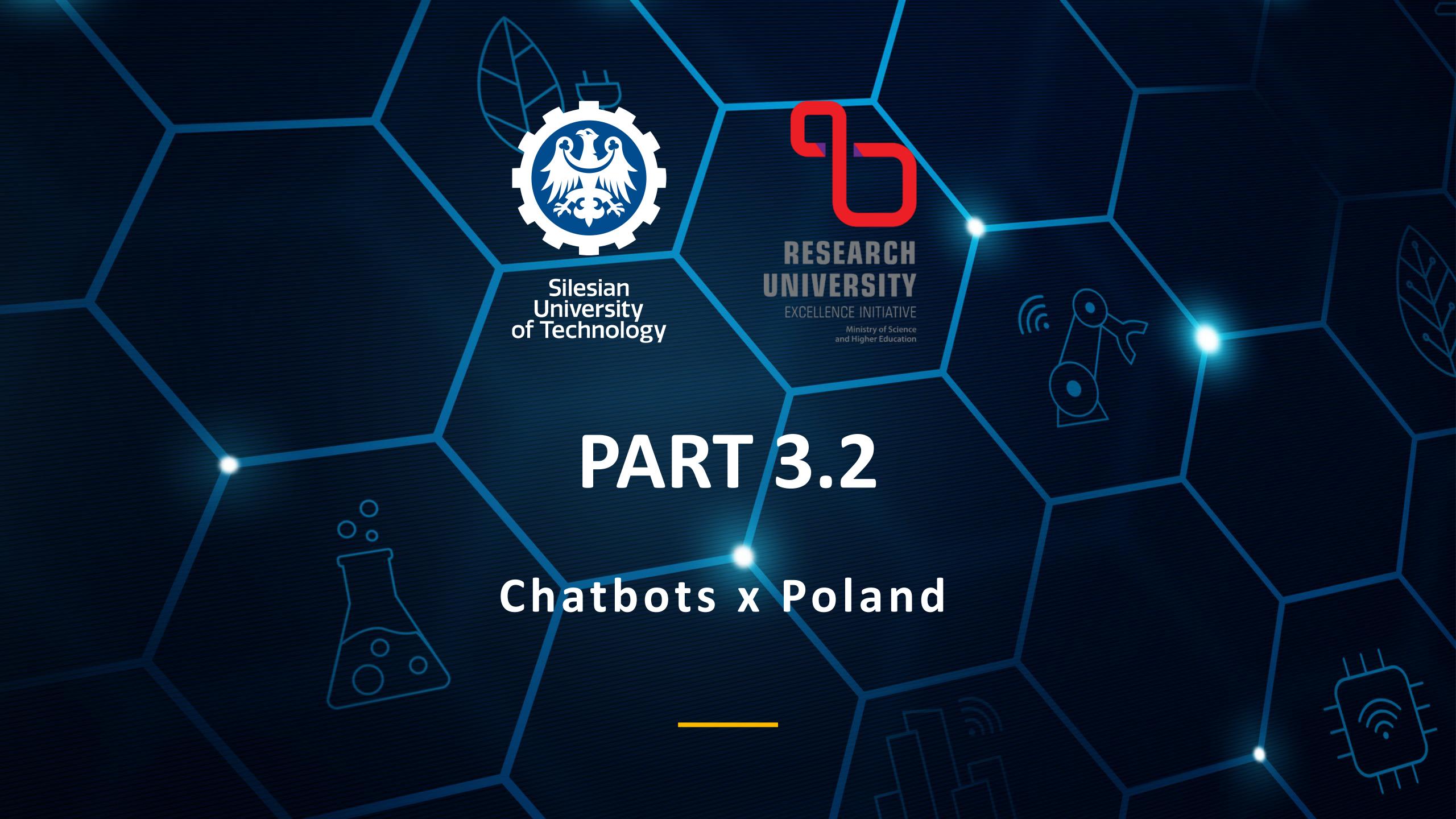


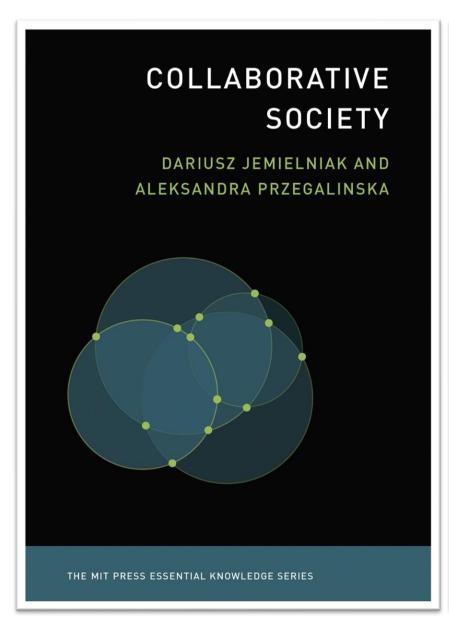


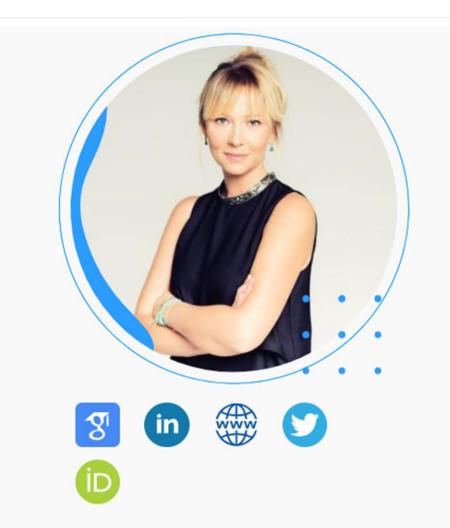




















https://www.kozminski.edu.pl/en/community/card/ prof-aleksandra-przegalinska-skierkowska

A list of the research project within competitions:

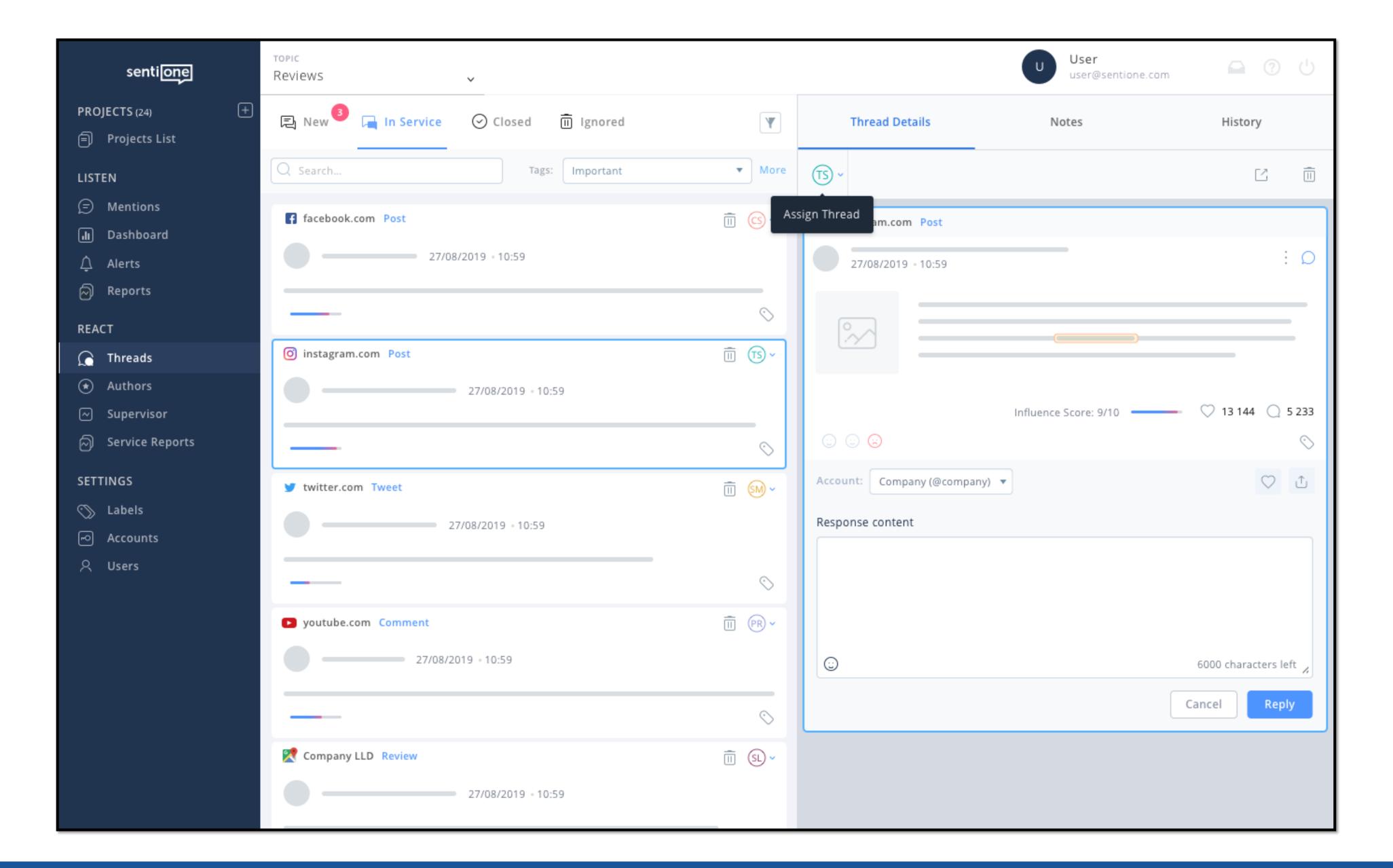
- RENOIR: Reverse Engineering of Social Information Processing. Manager: Prof Janusz Hołys, source: EU Horizon 2020, amount 5.5 MLN PLN
- Machine Learning-based systems for the automation of systematic literature reviews in food safety domain, manager: Prof Radosław Pytlak, source: Norway Grants, amount: 5.2 MLN PLN
- "Simulation and analysis methods of logistics networks for postal operators", manager: Dr Rafał Biedrzycki, NCBiR, WUT participation 2.6 MLN PLN
- "APAKT Online child abuse reacting system emphasizing child pornography", manager: Prof Włodzimierz Kasprzak, NCBiR, 12.3 MLN PLN (WUT participation 2.3 MLN PLN)
- HOMER: Human Oriented autoMated machinE leaRning, manager: Prof Przemysław Biecek, source: NCN, amount: 2.0 MLN PLN;
- NL4XAI: Interactive Natural Language Technology for Explainable Artificial Intelligence, manager at WUT: Prof Katarzyna Budzynska, source: Horizon 2020, amount: 13.0 MLN PLN (WUT participation: 1 MLN PLN);
- Robotic Applications for Delivering Smart User Empowering Applications RAPP", manager: Prof Cezary Zieliński, 7th FP EU, amount: 8.0 MLN PLN (WUT part: 1 MLN PLN).

INTERACTIVE NATURAL LANGUAGE TECHNOLOGY FOR EXPLAINABLE ARTIFICIAL INTELLIGENCE

NL4XAI is the first European Training Network (ETN) on Natural Language (NL) and Explainable Artificial Intelligence (XAI), coordinated by the Centro Singular de Investigación en Tecnoloxías Intelixentes (CiTIUS), Universidade de Santiago de Compostela. The NL4XAI network is funded by the Horizon 2020 research and innovation programme, through a Marie Skłodowska-Curie grant, in the framework of the European Union's bet for Explainable Artificial Intelligence.

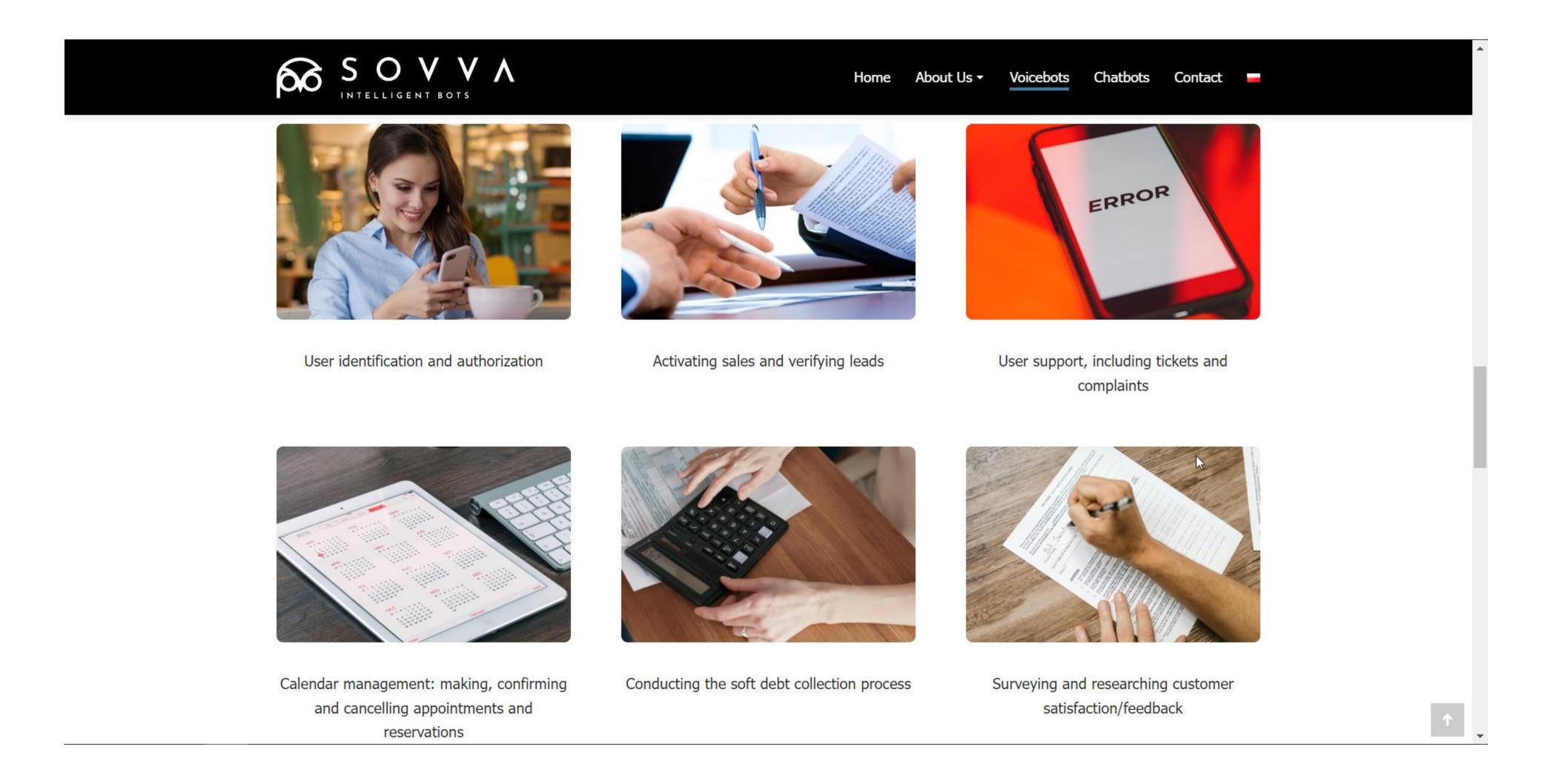
This network brings together 18 beneficiaries and partners from 6 different countries (France, Malta, Netherlands, Poland, Spain, and United Kingdom), representing both academic and non -academic sectors. They work together with the aim of making Artificial Intelligence self-explaining and contributing to translate knowledge into products and services for economic and social benefit.

The goal is to produce intelligent machines able to explain their behavior and decisions through interactive explanations in NL, just as humans naturally do. Eleven Early Stage Researchers (ESRs) face different but complementary research challenges to accomplish this goal. The NL4XAI network offers a unique research environment providing ESRs with an excellent structured training programme.



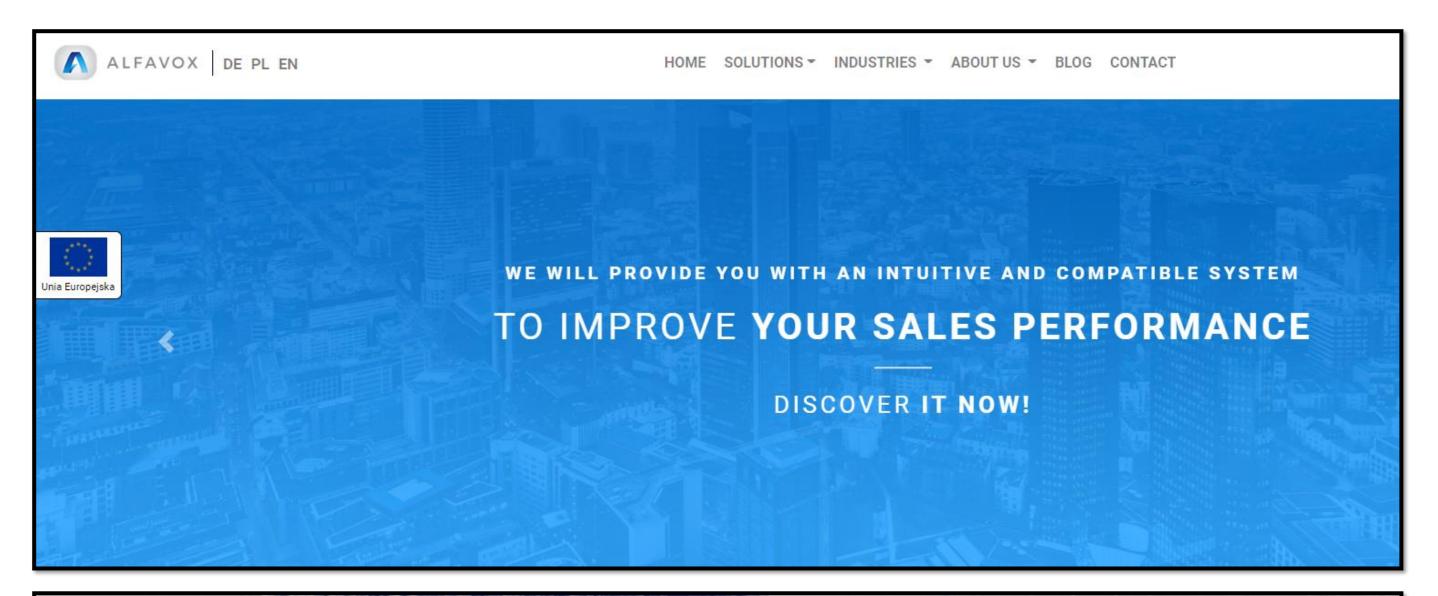


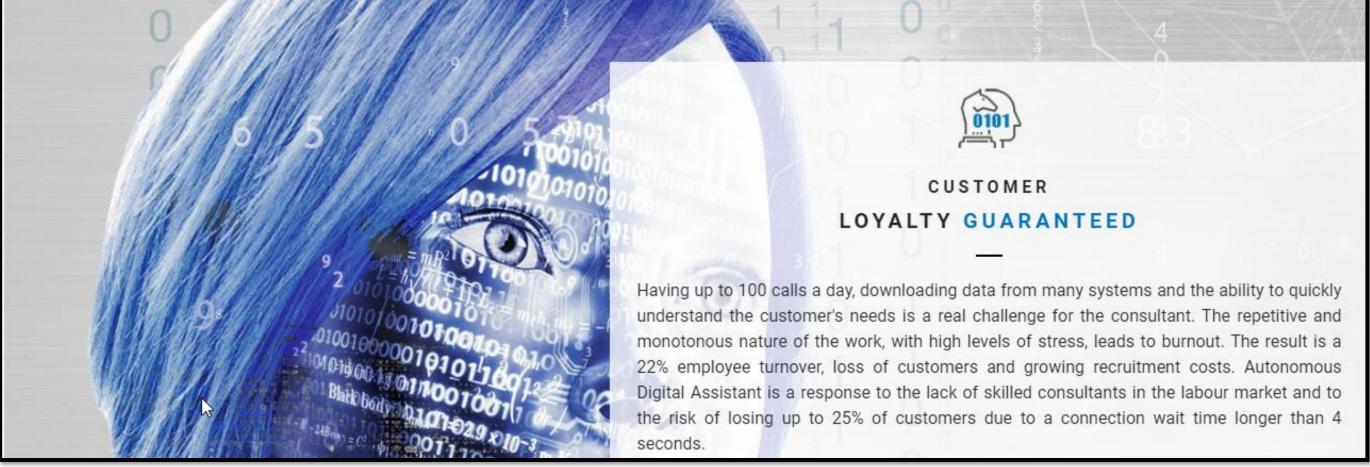












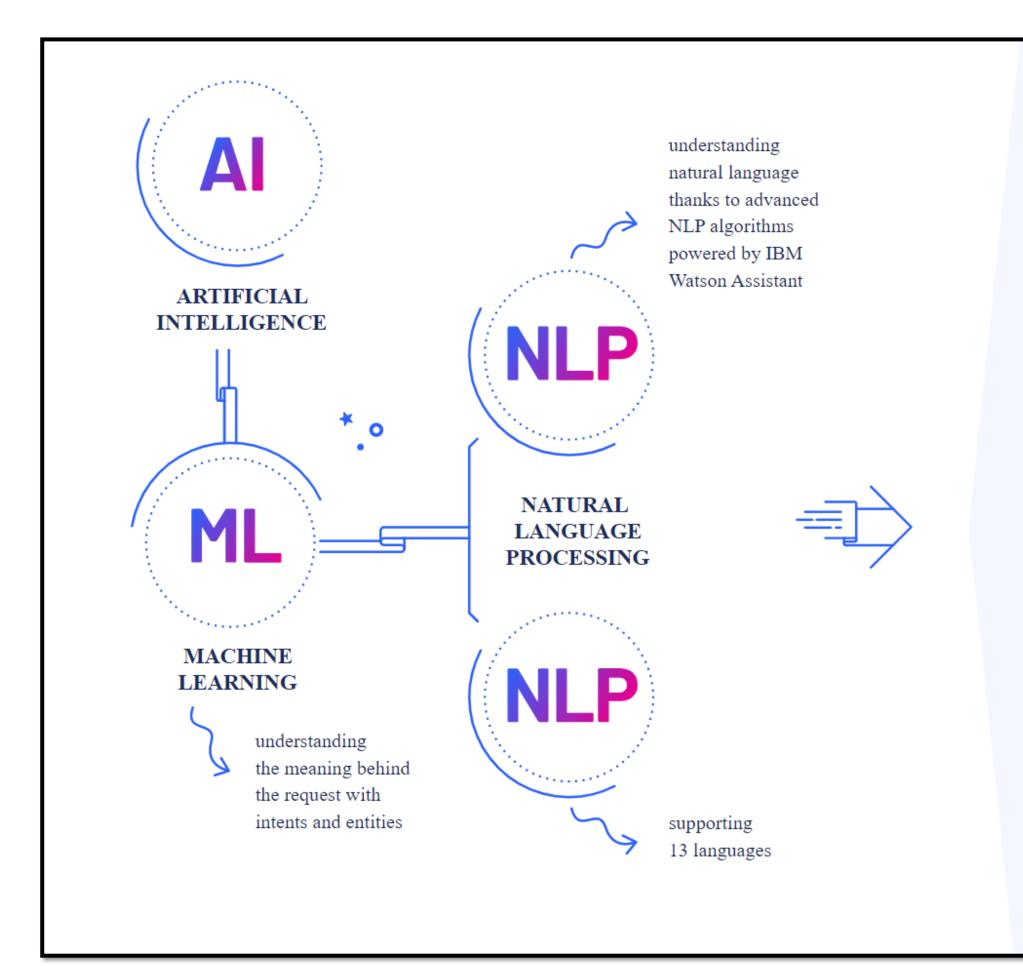
CUSTOMER ENGAGEMENT

- > Video Chat
- > Customer Experience
- › Biometric Video Identification
- > AI AALIA

EMPLOYEE ENGAGEMENT

- > Omnichannel Desktop
- > Workforce Management
- > Artificial Intelligence





Thanks to such engine, amongst other chatbot features,
Actionbot enables:



a quick analysis of the channel's content to navigate the user and interact with him



constant analysis and learning on previous conversations with customers and their activities in a channel



adjusting chatbot reactions to customers' actions

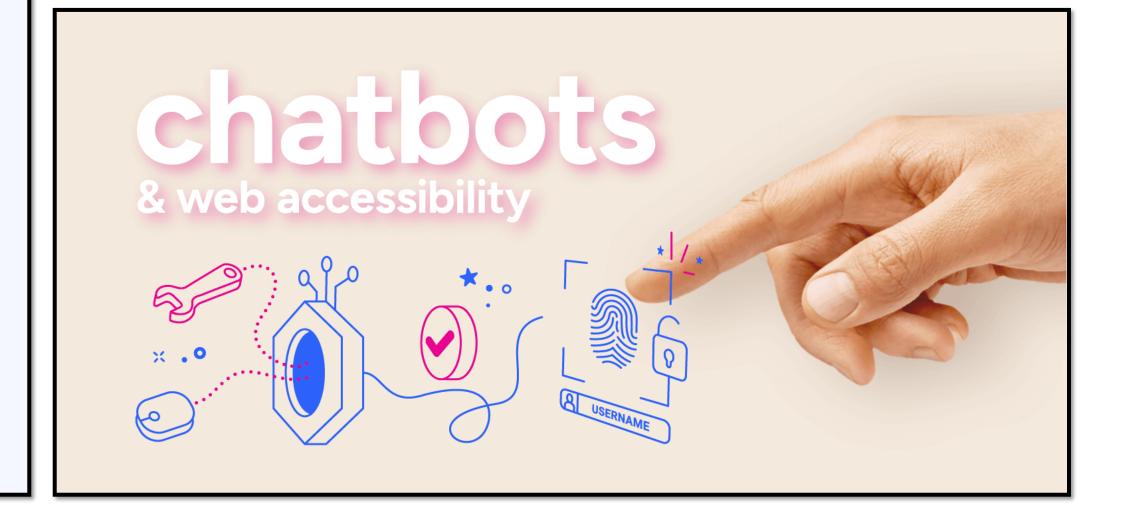


automatic forms pre-filling to ease customer's experience, shorten the transaction process and reduce drop-outs

What can NLP chatbots bring to your company?

- ★ imitate natural conversation
- provide instant support
- improve user experience
- increase conversion rate
- lower implementation cost

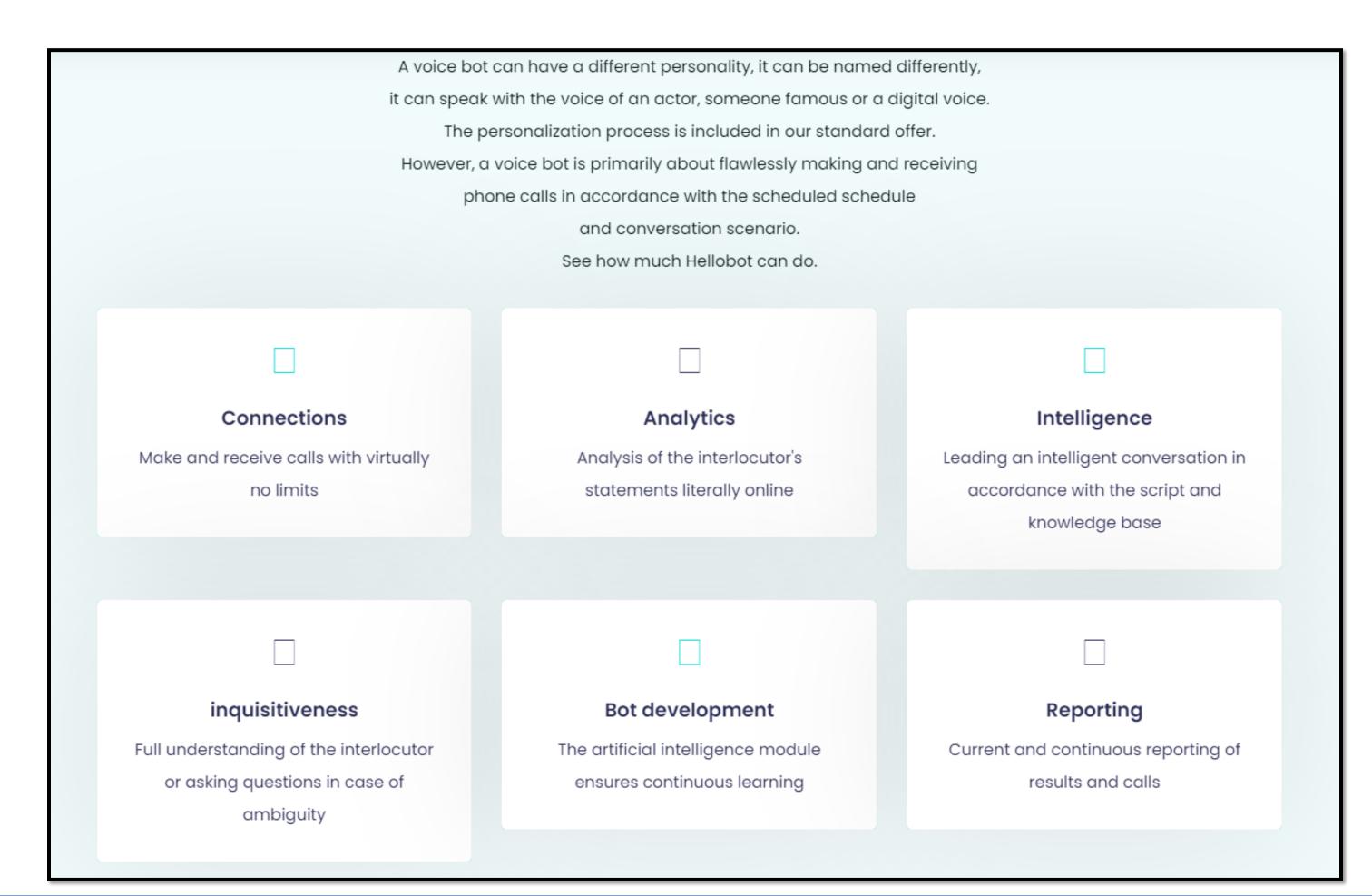










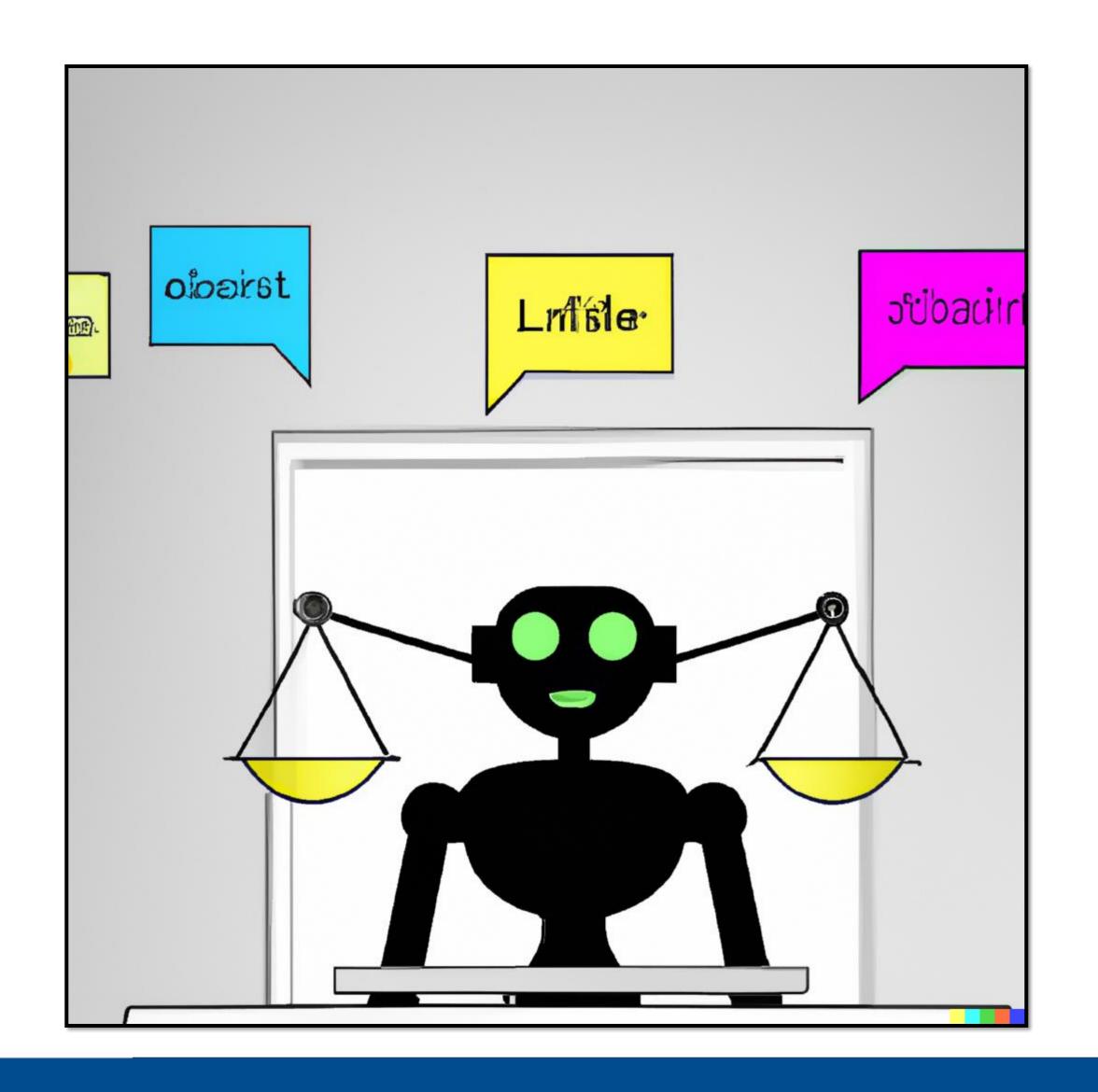






DALL-E 2: Open AI's tool that is revolutionizing digital photo creation

Chatbots applied in the justice field





[→ Log out

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OpenAI

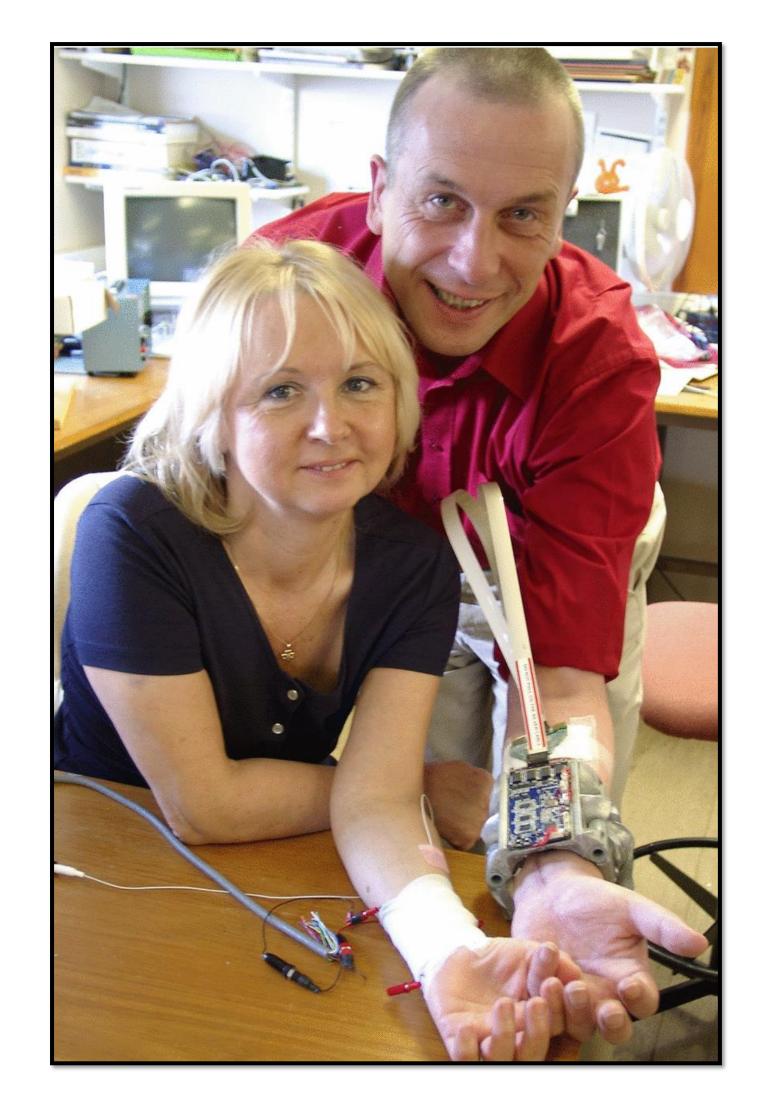


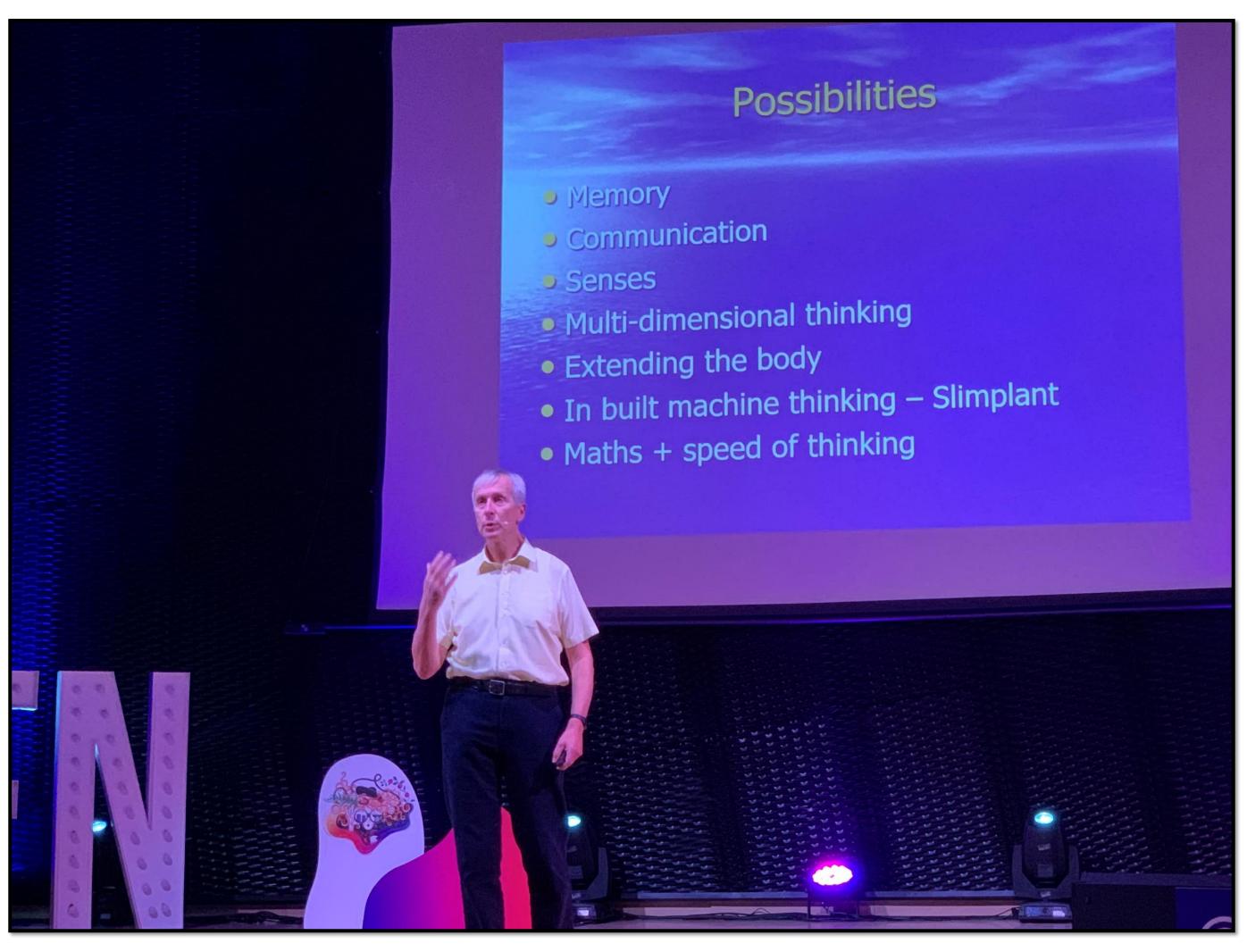
How artificial intelligence, for example chatbots, can be used in the justice field?



Artificial intelligence, including chatbots, can be used in the justice field in a number of ways.
For example, AI can be used to help automate and streamline legal processes, such as by analyzing legal documents or providing legal research assistance. Chatbots can also be used to help individuals understand their legal rights and options, and to guide them through the legal process. In addition, AI can be used to assist in the detection and prevention of legal crimes, such as fraud or financial crimes. Overall, the use of AI in the justice field has the potential to improve the efficiency and effectiveness of the legal system.









THANKS!



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