

WORLD'S PREMIER EVENT FOR ARTIFICIAL INTELLIGENCE



Under the Hood of LLM

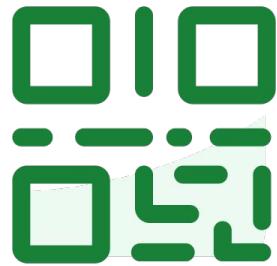
PyData Slovakia & Bratislava Meetup #29, #PyDataSK
(#PyDataSK, SwissRe Office, Nivy, Bratislava, Slovakia)



#PyDataSK @ sli.do



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#PyDataSK

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Under the Hood of LLM

Structure of the talk (25-40 min., Q&A 5-15 min.)

- NumFocus & PyData [Slovakia, slovakia@pydata.org] Intro

- 1. Current development and what's next/what to do now? [5 min.]

Sora, Gemini 2.5 Pro, Copilot/ChatGPT & GitHub Copilot, Vibe Coding + Flawless.ai

- 2. Internet of Agents, new era of Agentic AI (path towards HLAI/AGI - MCP, AG-UI, A2A) [10 min.]

Strong/Wide AI vs. Weak/Narrow AI, Machine Learning vs. Machine Reasoning

- 3. Under the Hood of LLM [10 min.]

Attention is all you, Viz for LLM, Extensions of LLM (RAG), new Architecture

- 4. LLM Privacy, Ethics & Transparency in AI/Trustworthy AI/Responsible AI/Growth potential [3 min.]

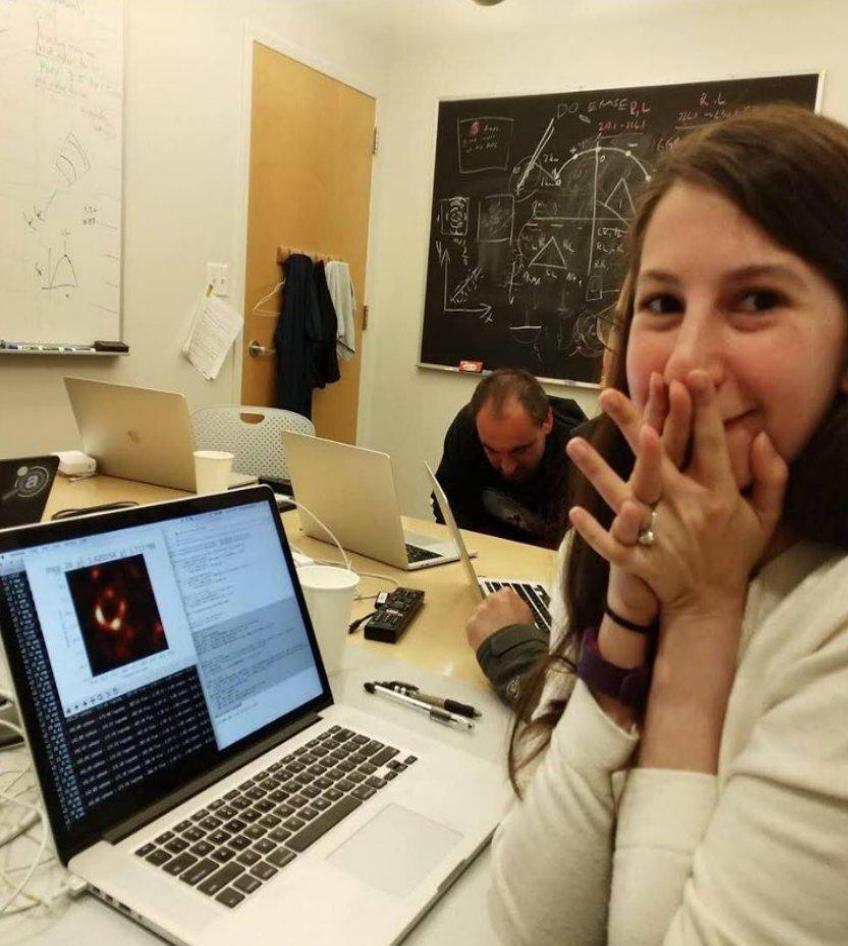
Brain/Neuroscience Research and theory of consciousness

- 5. LLMs and Explainable AI/xAI, Shapley values, Mathematics of AI [3 min.]

- 6. Conclusion & next meetup PyData Slovakia (Maryam Alimardani) [1 min. + Q&A/3 min]

- Data Science (definition): collection of scientific results and methods for transformation of data from raw form to meaningful information, knowledge and wisdom, which should support better decisions

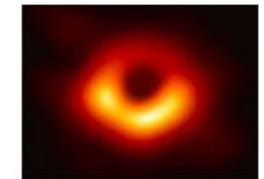
- AI (definition) - theory and development of computer systems able to perform tasks normally requiring human intelligence, such as visual perception, speech recognition, decision-making, translation and others



April 2019 Newsletter

The Headlines:

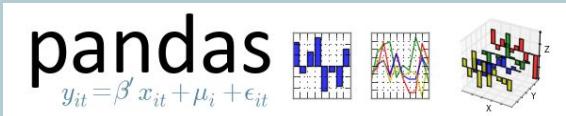
The recent breakthrough image of a black hole was powered by multiple NumFOCUS projects!



Dr. Katherine Bouman

- Numpy (van der Walt et al. [2011](#))
- Scipy (Jones et al. [2001](#))
- Pandas (McKinney [2010](#))
- Astropy (The Astropy Collaboration et al. [2013, 2018](#))
- Jupyter (Kluyver et al. [2016](#))
- Matplotlib (Hunter [2007](#))

(PyData & PyViz overview, PyData and LLMs / ChatGPT)



- **Travis Oliphant** (NumPy + SciPy/Matlab alternative)

1995 (**Numeric**), 2006 (**Numpy**)

- **John Hunter** (matplotlib) 2003

- **Wes McKinney** (pandas)

January 2008, Python, C, Cython

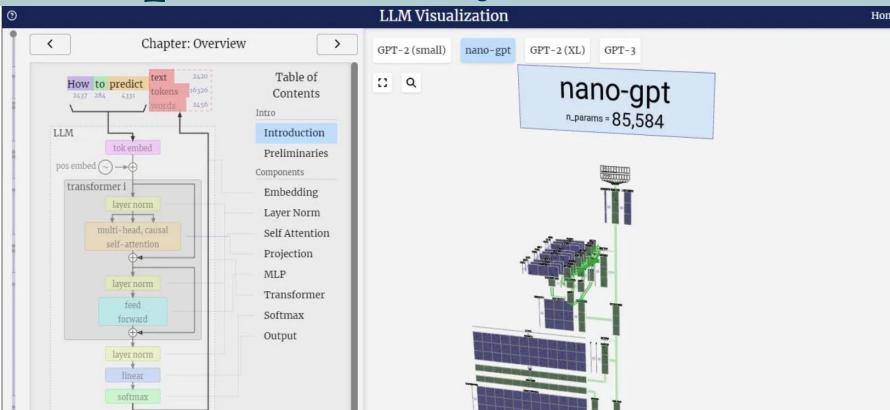
- Anaconda as one of the Python distributions (1000 selected libraries for Data Science)

- NumFocus

- PyData conferences and local meetups (PyData Bratislava)



Explainability & xAI Tools (LLM & others) +protocols



- LLM viz

Ever wanted to see what was happening in LLMs like ChatGPT? This new 3D LLM visualization tool shows all the steps to run a single token inference.

<https://bbycroft.net/llm>

<https://alphasignal.ai/>

<https://github.com/bbycroft/llm-viz>

+

Others (100+ tools), f.e.:

- **Alibi** (Algorithms for explaining machine learning models)

<https://github.com/SeldonIO/alibi>

- **Captum** (Model Interpretability for PyTorch)

<https://captum.ai/>

MCP (Anthropic/ex-OpenAI) + A2A (Google) + AG-UI (dev)



Is data reality?

Future is awesome.
All we have to do
now is to build it.

#PyData

Data Science & Data Visualization in Python.
How to harness power of Python for social good?



Source: PyData Berlin 2017 (w/Marek Rosa), Talk on YouTube: <https://www.youtube.com/watch?v=I5578BhU4sE>

Data is not reality.
And if you think so, you
should quit doing so...
like, right now.

Source: Me :), H2O.ai Meetup, Prague 2019,
<https://www.meetup.com/Prague-Artificial-Intelligence-Deep-Learning/events/264335458/>



Which programming language do you develop in?

ⓘ Start presenting to display the poll results on this slide.



ORIGINAL SCENE - R RATED

AI is here, and it's making movies. Is Hollywood ready? - Los Angeles Times (latimes.com) FLAWLESS, flawlessai.com)

Global GDP ≈ \$100 Trillion USD

\$100,562,000,000,000 (2022, nominal/per year)

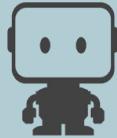
US: 25.5 Trillion USD/year (GDP)

China: 17.9 Trillion USD/year (GDP)

Japan: 4.2 Trillion USD/year (GDP)

Germany: 4 Trillion USD/year (GDP)

India: 3.4 Trillion USD/year (GDP) +UK, France, Russia, Canada, Italy (about 2 Trillion USD/year)



DataRobot



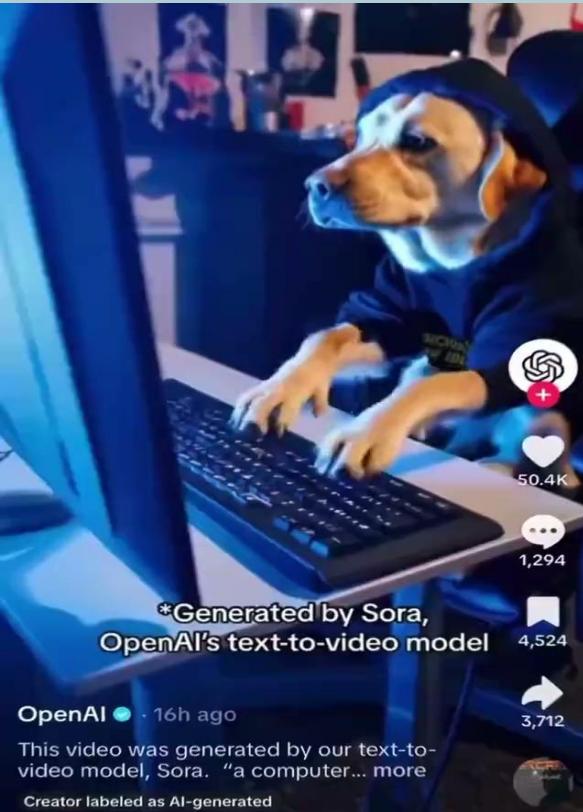
OpenAI CEO Sam Altman Raising \$7 Trillion for AI Chip Company

February 9, 2024 by Brian Wang

OpenAI CEO Sam Altman is talking with leaders of the UAE and elsewhere for \$7 Trillion for a new AI Chip company.

The WSJ report indicates Sam wants to raise money and then ask TSMC to build factories.

AI, AGI, HLAI > Palantir, Flawless, Sora and beyond... Frankie.AI goes to Hollywood



*Generated by Sora,
OpenAI's text-to-video model

OpenAI · 16h ago

This video was generated by our text-to-video model, Sora. "a computer... more

Creator labeled as AI-generated

x, modern-day ML algorithms, where deep learning & ensemble methods

ard to fully understand, but the decision process behind them
T is not transparent/open (at all/bans and restrictions)
eed to be transparent and trustworthy for decision makers
coming together

Domains as finance, healthcare or public sector & governmental services, where
is a MUST

ability vs. Simplicity

regulatory pressure also outside these areas Explainable AI (xAI) will be
for any organization soon

and the inner workings of these ML algorithms & how to design systems that
elligence in a transparent way

view of current trends in Explainable AI/ML & the challenges that are ahead of us
g thing?

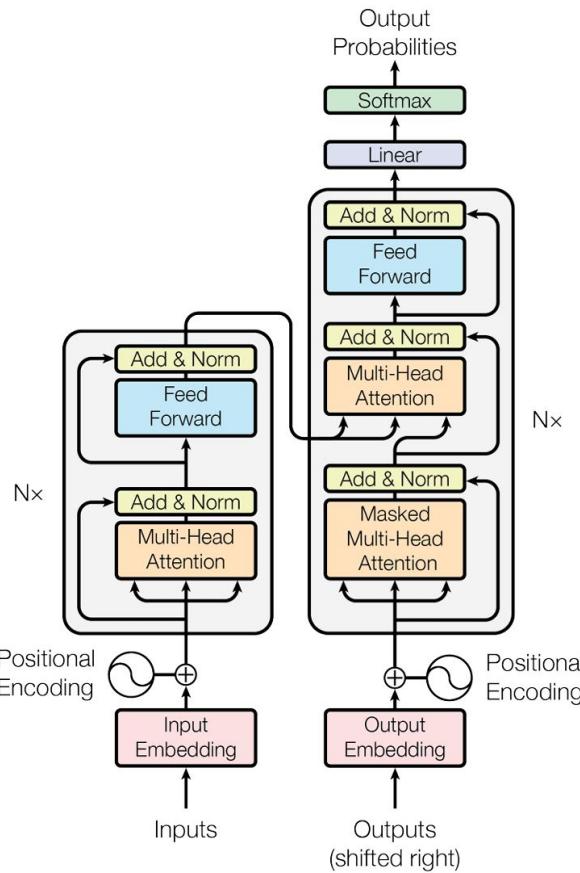
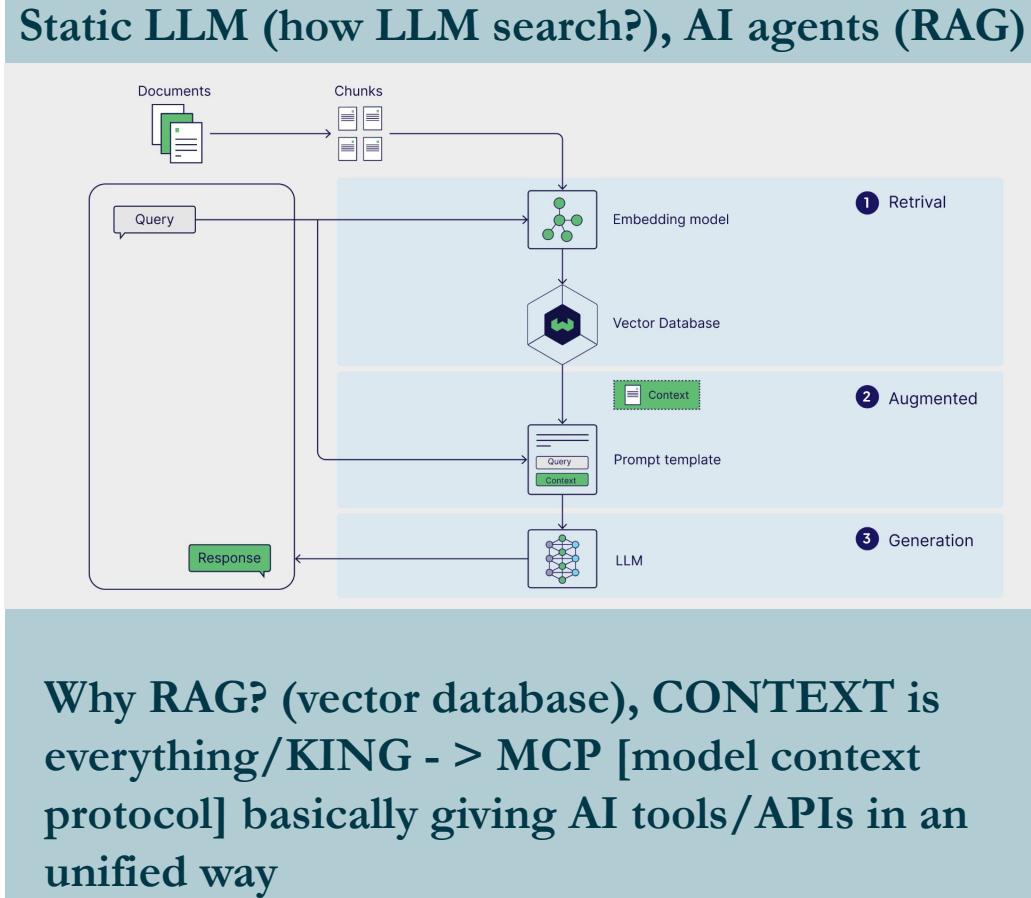


Figure 1: The Transformer - model architecture.

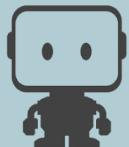


Why RAG? (vector database), CONTEXT is everything/KING -> MCP [model context protocol] basically giving AI tools/APIs in an unified way

Explainable ML/AI (xAI), Era Chatbots, AI agents {MCP, AG-UI, RAG, A2A}



H₂O.ai



DataRobot

Sarah Connor watching you
use AI for everything





Who's on the picture?

Click **Present with Slido** or install our [Chrome extension](#) to activate this poll while presenting.



Future of AI/ML and Data Science

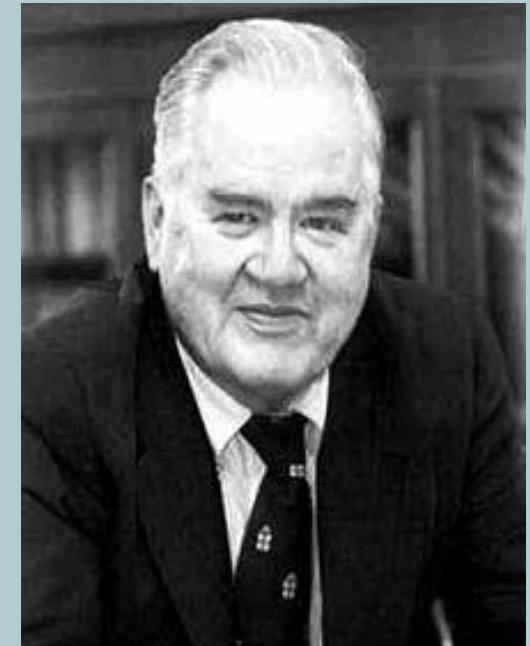
- Back to Basics

What Machine Learning/Artificial Intelligence is? What Data Science is?

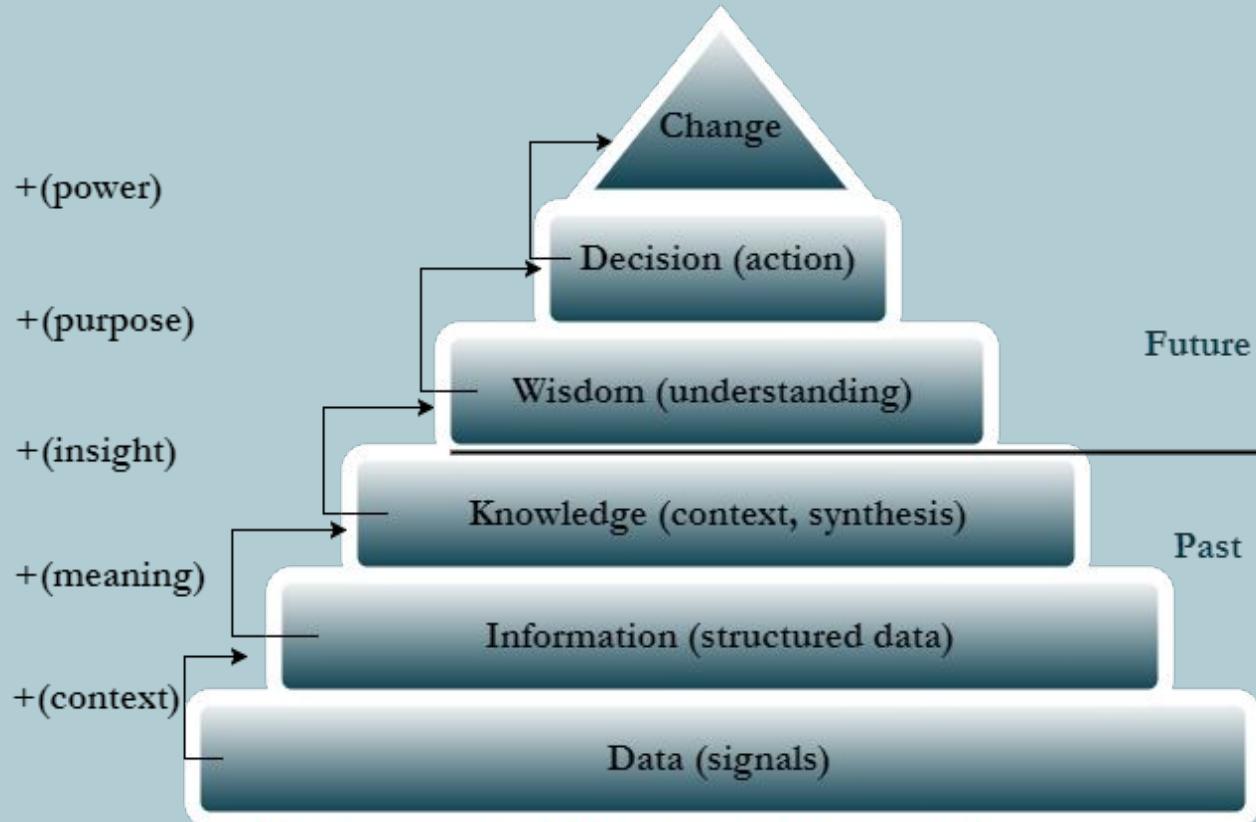
“Artificial intelligence is the science of making machines do things that would require intelligence if done by men.”

-- Marvin Minsky

- Data Science (definition): collection of scientific results and methods for transformation of data from raw form to meaningful information, knowledge and wisdom, which should support better decisions
- Data Science: Statistics + programming; data analysis + Computer Science, modelling + Econometrics, Big Data, ML/DL
- Expectation/Prediction: Data Scientists, one of the first “victims” of automation
- Is Data Reality? Do we model reality? (noise/signal)

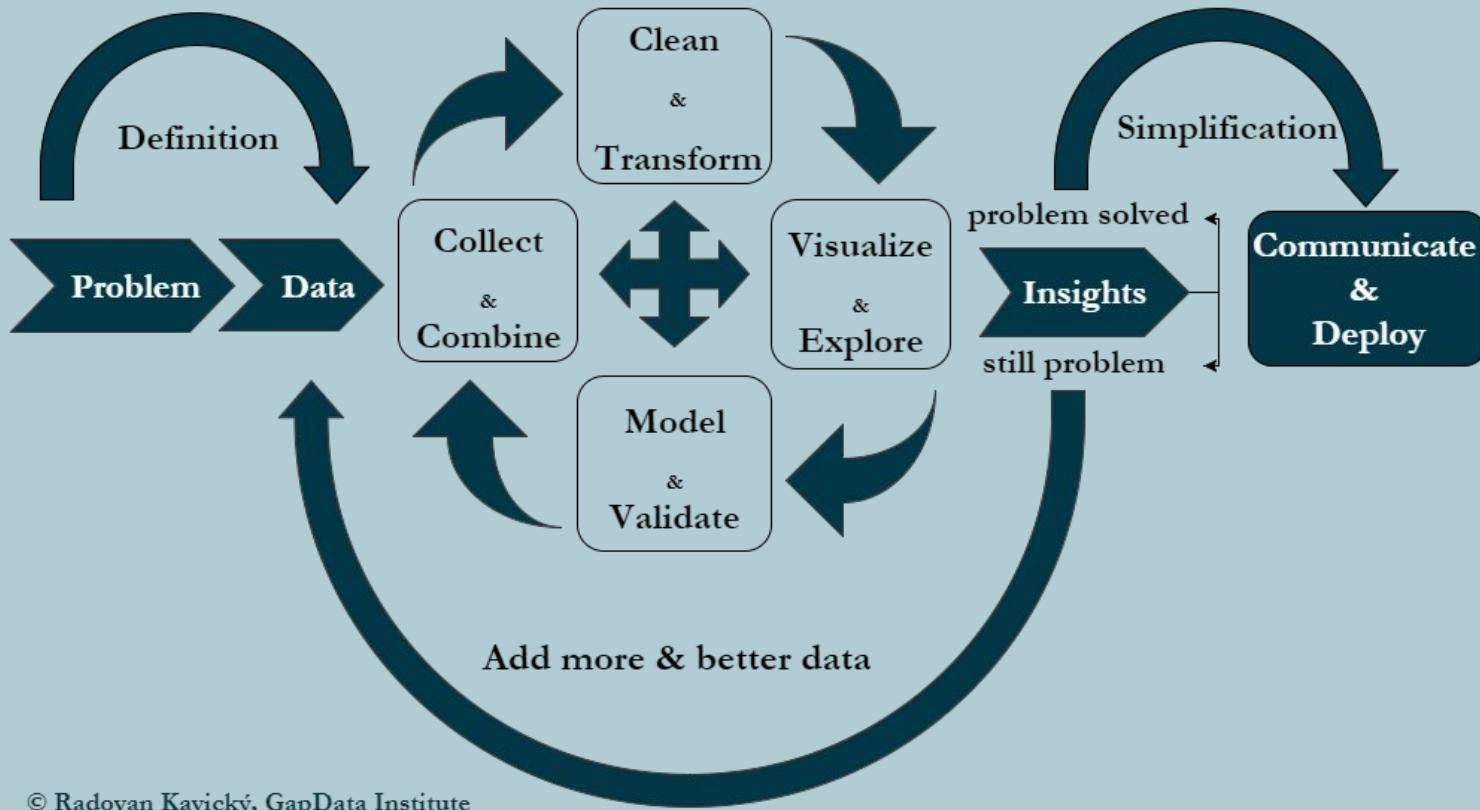


Data Science Pyramid



© Radovan Kavický, GapData Institute (inspired by DIKWD model by Curt Swindoll)

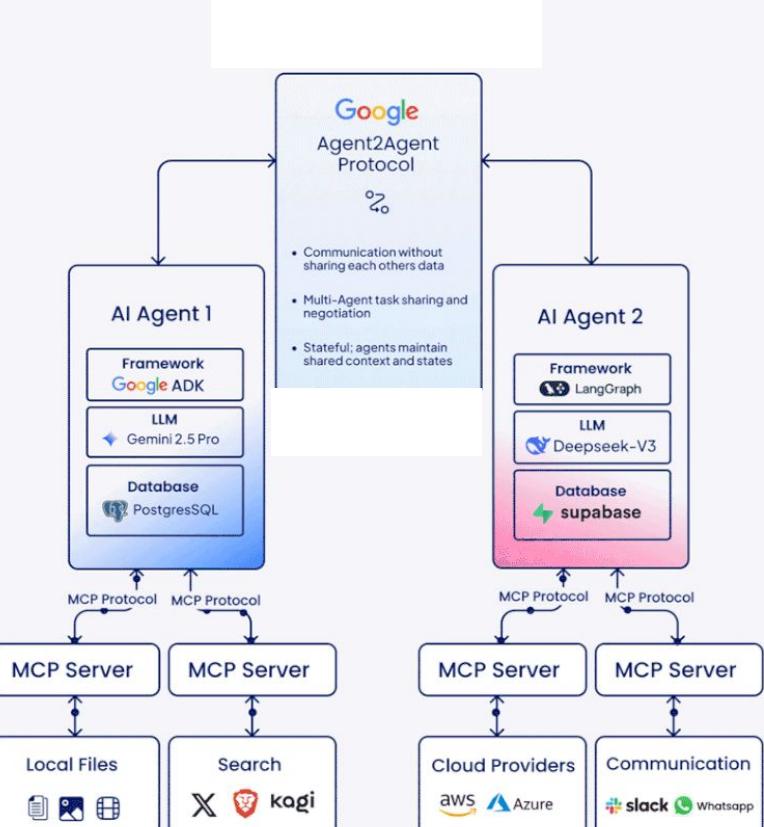
Data Science Process & Workflow



© Radovan Kavický, GapData Institute

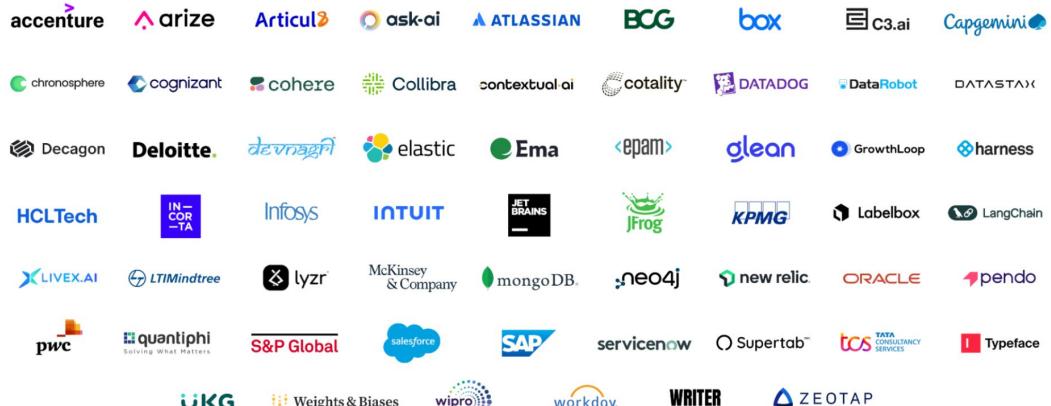
Test

A2A vs MCP



MCP [November 2024] + A2A [April 2025]

Partners contributing to the Agent2Agent protocol

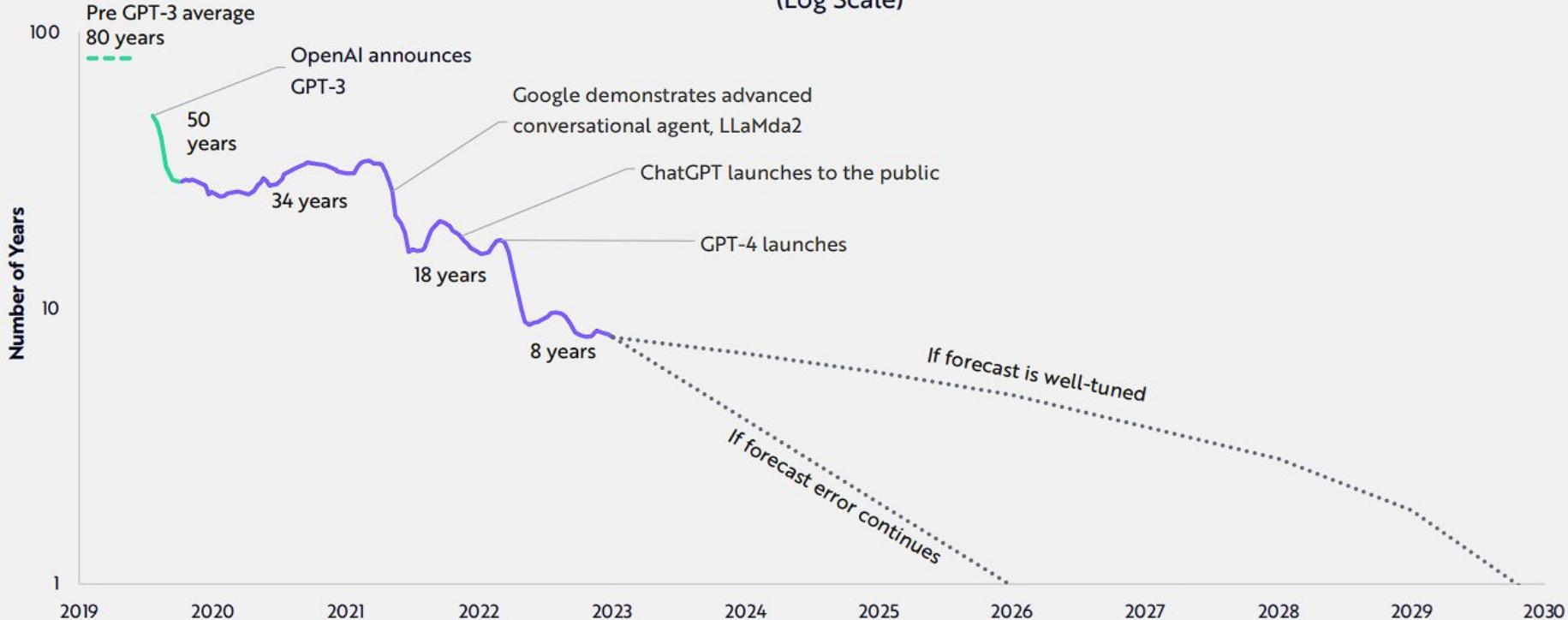


Why MCP? (why not vs. but co-operation/agent coordination), MCP [model context protocol] basically giving AI tools/APIs in an unified way and A2A is giving them way how to orchestrate things



Source: [HLAI Conference | GoodAI](https://www.goodai.com/hlai/) <https://www.goodai.com/hlai/> Ben Goertzel, 2018 (Good.AI & GapData Institute, PyData Slovakia/partnership)

Expected Years Until Launch Of A General Artificial Intelligence System (Log Scale)



Source: <https://ark-invest.com/big-ideas-2024> + <https://www.youtube.com/watch?v=hFg1TMACw4I>

Explainability & Tools (LIME, SHAP & others)



- **LIME** (Local Interpretable Model-agnostic Explanations)
- explainable AI method that helps to illuminate a machine learning model
- make its predictions individually comprehensible
- method explains the classifier for a specific single instance (suitable for local explanations)
- model agnostic tool which can give explanations for any supervised learning model
- one of the most popular XAI tools out there due to its simplicity and intuitiveness

<https://github.com/marcotcr/lime>

- **SHAP** (SHapley Additive exPlanations)
- game theoretic approach to explain the output of any machine learning model.
- connects optimal credit allocation with local explanations using the classic Shapley values from game theory and their related extensions

<https://github.com/slundberg/shap>

+

Others (100+ tools), f.e.:

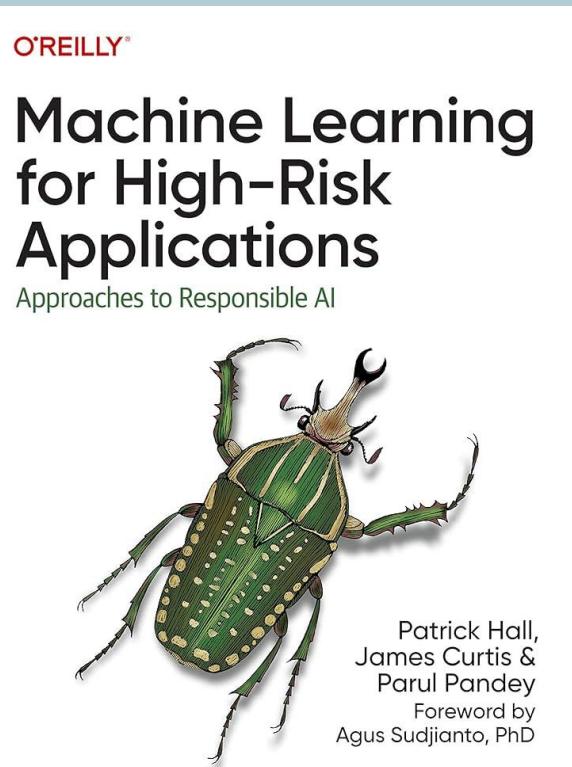
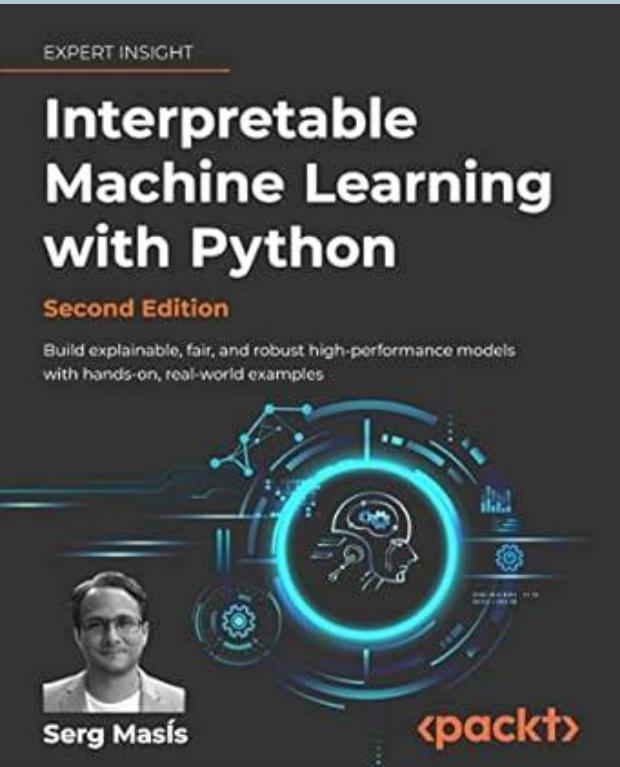
- **Alibi** (Algorithms for explaining machine learning models)

<https://github.com/SeldonIO/alibi>

- **Captum** (Model Interpretability for PyTorch)

<https://captum.ai/>

Explainable AI/xAI + key literature



- Source:
<https://christophm.github.io/interpretable-ml-book/>
- [https://www.amazon.com/Machine-Learning-High-Risk-Applications-Responsibl e/dp/1098102436](https://www.amazon.com/Machine-Learning-High-Risk-Applications-Responsibl-e/dp/1098102436)
- <https://www.amazon.com/Interpretable-Machine-Learning-Python-hands/dp/180323542X/>

AI & Ethics of AGI (Transhumanism & Empathy/future challenges)

≡ CNN BUSINESS Markets Tech Media Calculators Videos

Neuralink, Elon Musk's brain implant startup, set to begin human trials

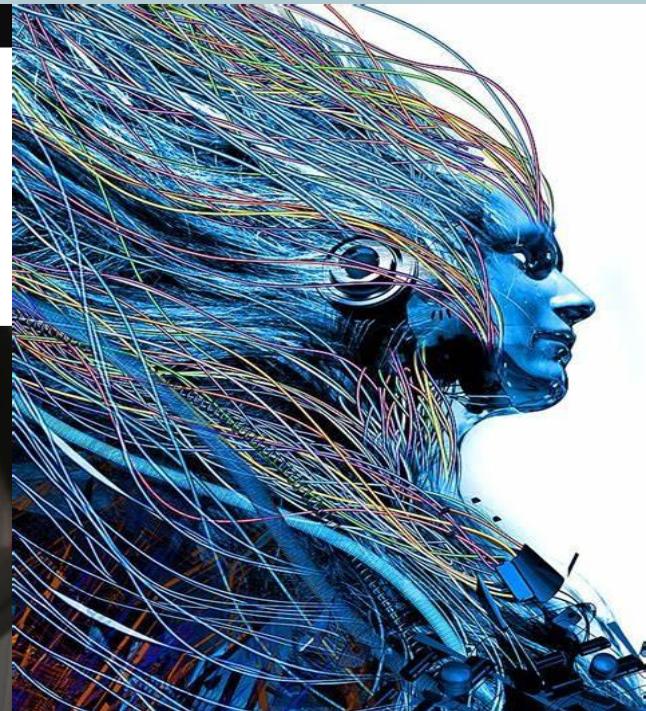
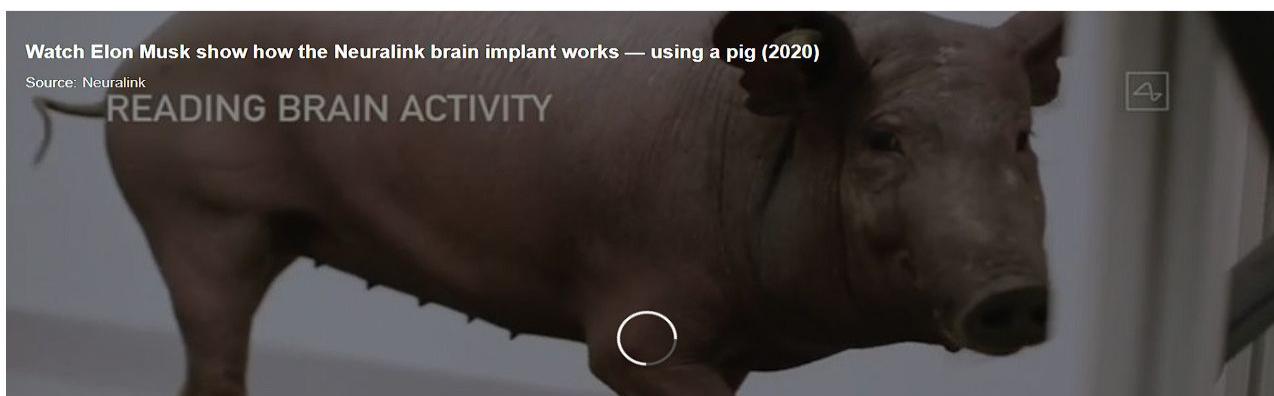
By Jennifer Korn, CNN
🕒 3 minute read · Updated 1:05 PM EDT, Wed September 20, 2023



Watch Elon Musk show how the Neuralink brain implant works — using a pig (2020)

Source: Neuralink

READING BRAIN ACTIVITY



Source: <https://edition.cnn.com/2023/09/20/tech/musk-neuralink-human-trials/index.html>

AI & Ethics (food for thought & main challenges for the future)

- we should all be humble & think all the time about ethical implications of our work
- data is not (at least our) reality & need of transparency (explainable AI/HLAI/Superintelligence)
- we have no programming of common sense (fails/CYC)
- we need both left and right brain/lobe thinking
- we don't know how we really think (and if you think you know, well... good luck)
- we don't know what intelligence is (unknown processes)
- we are not walking neural nets (but if some of you are, please, let me know)
- design perceptron (imitate brain without knowing how the brain really works), real research of brain started (Brain Initiative/public and private research, 2013 +DARPA, IARPA)
- we need to rethink the basic design of neural nets (mathematics of deep learning)
- we can count all the neurons in our brains (10's of billions and 1000's of billions synapses)
- we need rules (ethical & law standards/technology is currently before ethics)

“But the big feature of human-level intelligence is not what it does when it works but what it does when it's stuck.”

-- Marvin Minsky

What's coming next? (BottleCapAI, Diffbot and beyond/Wolfram Alpha LLM)

GLOBAL AI SHOW 11 APRIL 2024

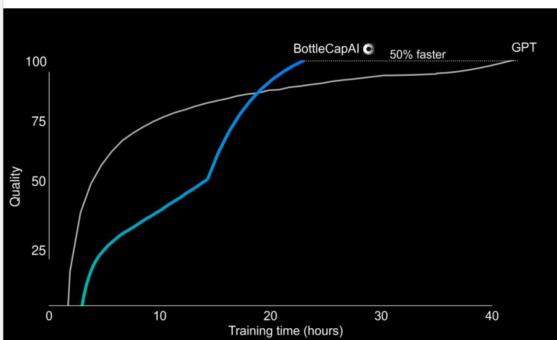
Tomas Mikolov • 1st
Co-founder @ BottleCap AI
23h • 0

Happy to announce my new project. Month ago, we've started a new company BottleCap AI with the goal to improve efficiency of language models by hundred times. Yes, 100x - we're ambitious! And we already have the first results to announce - while we're still building the initial team, we have already developed a new algorithm that reduces costs of training the language models by up to 50%. Just to put this into context - there are billions of dollars spent every year on training and running LMs and we can optimize these costs.

Of course, this is just the beginning. We've started working on a number of our own original algorithms - we're not just reimplementing mainstream ideas such as mixture-of-experts that everyone already knows about. We have our own tricks and while we primarily aim to optimize the speed, some of the algorithms we're developing have potential to improve even the generalization. If we succeed, our models may have unique properties which we're all very curious about.

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Profile viewers 513
Post impressions 2,388



DIFFBOT Data Solutions Products Pricing Resources Company

For Immediate Release: Jan 9, 2025

Diffbot Launches World's Most Factually Grounded Language Model: New Benchmark in AI-Powered Knowledge Retrieval

Backed by the World's Largest Web Knowledge Graph, New LLM Delivers Unprecedented Accuracy, True Citation Grounding, and Privacy-First Design

https://www.linkedin.com/posts/tomas-mikolov-59831188_happy-to-announce-my-new-project-month-ago-activity-7327968472133496832-DXWc?utm_source=share&utm_medium=member_desktop&rcm=ACoAABqk-LABV1znl-ZsXPPDmVC7gevQYjHpMb

AI, Consciousness & Ethics of AGI (Transhumanism & Empathy/future challenges)

25.9.2023 15:20 | Správy

živě Vedkyňa skúma, ako sa dá vidieť do mozgu. Pýtali sme sa, čo s tým robiť



Na rozhovore sa podielal Radovan Kavický z Národnej platformy pre rozvoj umelej inteligencie AlsvorakIA.

Svetové sympózium Digitálna inteligencia pre systémy a stroje sa konalo 21. – 22. septembra v Košiciach. Organizátormi boli Národná platforma pre rozvoj umelej inteligencie AlsvorakIA, profesijná organizácia inžinierskej a technologickej komunity Institute of Electrical and Electronics Engineers (IEEE), Technická univerzita v Košiciach a Elfa, s. r. o. Organizátori za podporu d'akujú Ministerstvu investícií, regionálneho rozvoja a informatizácie SR a UNESCO SK.

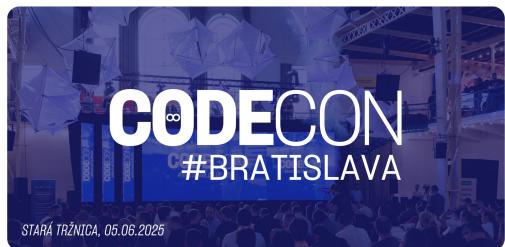
[Maryam Alimardani — Tilburg University Research Portal, https://research.tilburguniversity.edu/en/persons/maryam-alimardani](https://research.tilburguniversity.edu/en/persons/maryam-alimardani)
Vedkyňa skúma, ako sa dá vidieť do mozgu. Pýtali sme sa, čo s tým robiť (aktuality.sk)



PyData Slovakia & activities within CEE + V4



AI Startup Showcase Machine Learning Prague



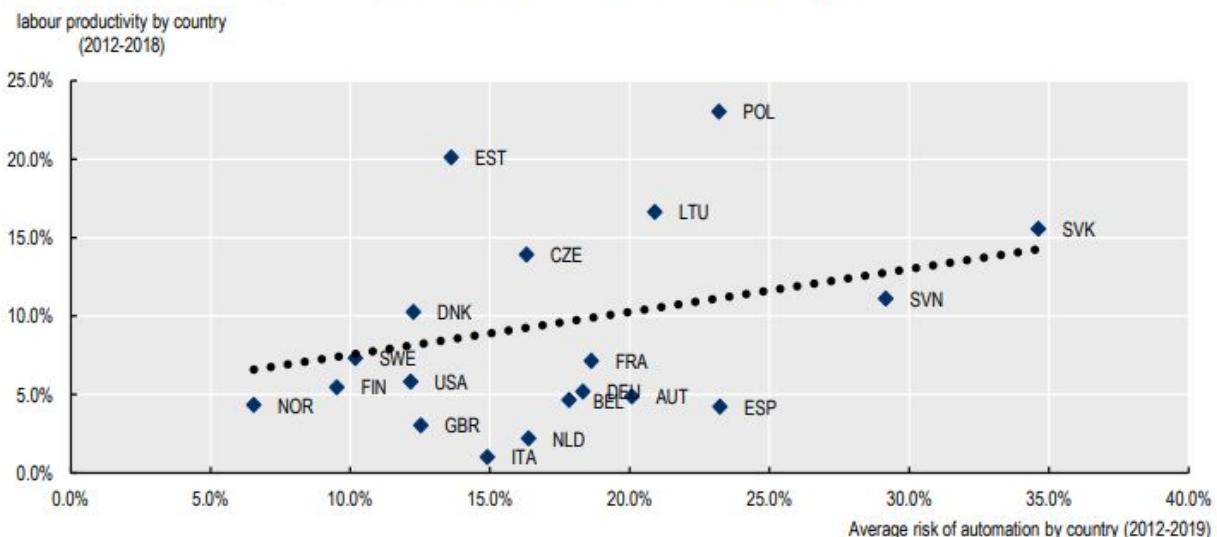
- 300+ members
- 3000+ on mailing list
- 800+ followers
- Partners: O'Reilly, robime.it, codecon.sk, nextech.sk
- Sponsors+Partners: SwissRe, H2O.ai, Microsoft, EuroCC
- WeAreDevelopers World Congress ("GAPDATA-25" & "PYDATA-25"), Berlin, 9.-11. July 2025
- Machine Learning Prague ("pydatask15" for 15% discount), Prague/O2 , 28.-30. April 2025
- WebExpo, Prague/Lucerna, 28.-30. May 2025 ("pydatask15" for 15% discount)
- Our meetups (23.5., 14:00 PyData Slovakia & Bratislava, Maryam Alimardani)



AI & Slovakia or why should you even care?

Figure 4. Labour productivity growth was greater in countries that were at higher risk of automation

Percentage change in labour productivity (2012-2019) and risk of automation (2012)



Note: The averages presented are unweighted. Labour productivity is measured by GDP (in USD, constant prices) per hour workers.

Source: OECD Productivity Database and (Nedelkoska and Quintini, 2018^[1])

- Source:
<https://www.oecd.org/future-of-work/reports-and-data/what-happened-to-jobs-at-high-risk-of-automation-2021.pdf>
+
- [AI Strategies and Policies in Slovak Republic - OECD.AI](https://oecd.ai/en/dashboards/countries/Slovakia),
<https://oecd.ai/en/dashboards/countries/Slovakia>
+
- [AI, automation, and the future of work: Ten things to solve | McKinsey Global Institute](https://www.mckinsey.com/featured-insights/future-of-work/ai-automation-and-the-future-of-work-ten-things-to-solve)

AI & Slovakia, what exactly are you talking about? What future?



AIslovakIA



- **OECD.AI** that provides an overview of AI strategies and policies in Slovakia. It includes an action plan for the transformation of Slovakia into a successful digital country and development of the digital single market. The action plan offers a set of concrete steps on how to start building a sustainable and human centric, and trustworthy AI.

- **AIslovakIA**, which is a neutral, independent and non-profit platform with an ambition to develop excellence and bring together experts and those interested in artificial intelligence in Slovakia.

- The national platform of artificial intelligence (AIslovakIA) is part of the Center for Artificial Intelligence (hereinafter referred to as “CAI”), a non-profit organization

- AI/ML augmented analytics (scenarios for data-driven decision making)

- build and deploy highly accurate machine learning models without writing a single line of code, experiment, simulate and compare different scenarios using various models/scenarios to identify the best strategy or test ideas before committing resources

- focus on the right data to analyze, get predictive insights with explanations in your dashboards + run simulations to get actionable prescriptive guidance on what to do next and get instant visual response

- Alphaai.ai (world's 1st AI voice analyst/not just regular “chat bot”)

GAP DATA INSTITUTE

KiNIT

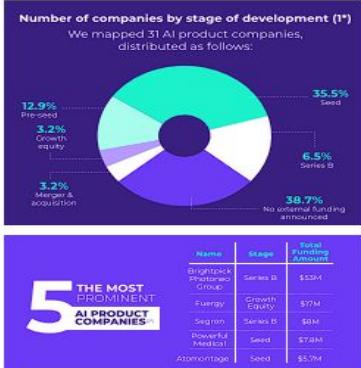
29/30 #PyDataSK @ sli.do

AlslovakIA



SLOVAKIA

Key Players in the AI Innovation Ecosystem



Top industries and AI specializations in Slovakia (3*)



Supporting Infrastructure

Communities, associations, event organizers

- National platform for AI development in Slovakia
- AlslovakIA - AmCham

Research institutions

- Kempelen Institute of Intelligent Technologies (KIIT)
- Project TERAIS
- Centre of Excellence for SMART Technologies, Systems and Services (Slovak University of Technology)

Startup programs - incubators and accelerators

- Industry Innovation Cluster, an accelerator and platform for innovation in Slovak industry

Funding Landscape

Total funding raised by AI product companies in Slovakia (4*)

\$100,000,000

Split of funding activity and sources for analyzed AI companies in CEE (5*)



Key local AI-focused investors

Zero Gravity Capital

Zero Gravity Capital
a €23M venture capital fund fuelling pre-seed, seed, series A innovations.



Venture to Future Fund

a joint initiative of EIB, the Ministry of Finance of the Slovak Republic, and the Slovak Investment Holding looking for SMEs in high-tech industries in their growth phase (Series A and later rounds).

Talent Pool

Number of people working in ICT (6*)

115,500
employees in 2022

Number of people working in AI (7*)

The number of people working in AI in Slovakia across different AI specializations:



Universities and degrees that teach AI-related courses (8*)

a/ Number of students in IT&C or specifically AI related degrees

7476 students
1946 graduates

b/ Degrees in AI in Slovakia

Cybernetics & Artificial Intelligence, Department of Cybernetics and Artificial Intelligence, Technical University of Kosice

Data Analysis & Information Processing, Artificial Intelligence, Faculty of Informatics and Information Technologies, Slovak University of Technology in Bratislava

Integrated Teaching for Artificial Intelligence Methods, The Laboratory of Artificial Intelligence at the University of Zilina

Easiness with which companies manage to find and attract AI talent (9*)

3.0 low to medium difficulty score

Under the Hood of LLM

Source: <https://therecursive.com/ai-trends-central-and-eastern-europe-report/>,

Interview: <https://therecursive.com/collaboration-is-the-key-to-success-radovan-kavicky-on-fostering-ai-innovation-in-slovakia/>

GapData Institute (GDI) and how to support us.



+++ + a b | e a u

- Economic Research & Public Policy & Data Science + AI think-tank (data-tank)
- Data. Think. Change.
- GapData Institute (GDI) is a non-profit nonpartisan research institution harnessing power of data & wisdom of economics for public good.
- Transparent account (from day #1;
SK7383300000002200933920
<https://www.fio.sk/ib2/transparent?a=2200933920>)
- Partnership (openness, transparency)
- Slides (this talk): tinyurl.com/slides-pydataSKMeetup29
- <https://github.com/radovankavicky/PyDataSKMeetup29>



PAY by square

Thank you for your attention

Contact:

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slovakia@pydata.org



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+420 777 595 262 (CZ)

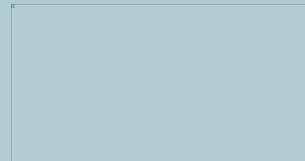
<http://www.linkedin.com/in/radovankavicky>

<https://gapdata.slack.com/>

<https://github.com/radovankavicky>

<https://www.facebook.com/groups/356635138031671>

@radovankavicky, @PyDataBA, @GapDataInst



That's all Folks!



**How would you rate this talk? (scale 1-10,
10 is awesome, 5 is meh, 1 is worst talk
ever, but "try again, fail again, fail better")**

Click **Present with Slido** or install our [Chrome extension](#) to activate this poll while presenting.



Under the Hood of LLM

DETAIL KURZA

Explainable AI in Python/Vysvetliteľná umelá inteligencia v Pytone

Verlag Dashöfer, s.r.o.

Popis kurzu

V tomto kurze, ktorý bude viesť Radovan Kavicky z GapData Institute sa zoznámiš s principmi a nástrojmi Explainable AI (xAI) ako LIME, SHAP a ďalšími a naučíš sa implementovať tieto princípy v Pythone.

[PRIHLÁSIŤ SA NA KURZ](#) 

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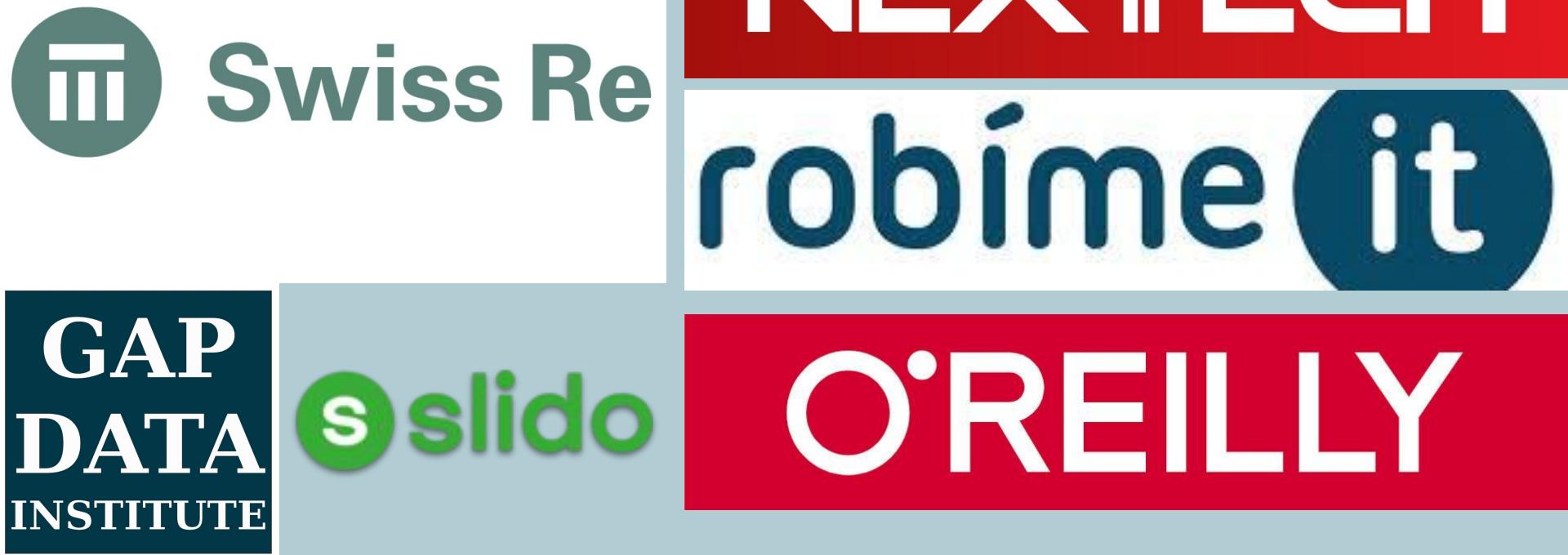
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Under the Hood of LLM

About me

Economist (Ing./Macro, Finance/NHF); Slovak Economic Association (SEA)

AI Expert, PhD. (xAI & Data Science/TUKE, prof. Sinčák), AI & Data Science Evangelist @ AIsolovakIA (National platform for AI development in Slovakia), President & Principal Data Scientist (GapData), Consulting (public, private)

Member of Slovak.AI (currently AIsolovakIA), CLAIRE, European AI Alliance, TAILOR (TrustworthyAI @ EU) 

Data Science Instructor @ DataCamp, BaseCamp.ai, Learn2Code/Skillmea, robime.it, GapData +others

Founder of PyData Slovakia/Bratislava (#PyDataBA), R <- Slovakia (#RSlovakia)

Analýza systému súdnictva a jeho výkonnosti do r. 2010 - Ministerstvo spravodlivosti SR (gov.sk)

<https://www.justice.gov.sk/tlacovespravy/tlacova-sprava-1581/> + selected for AI Connect II

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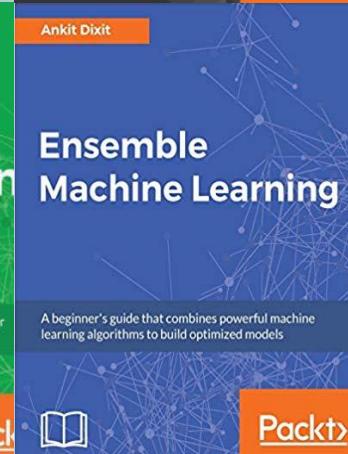
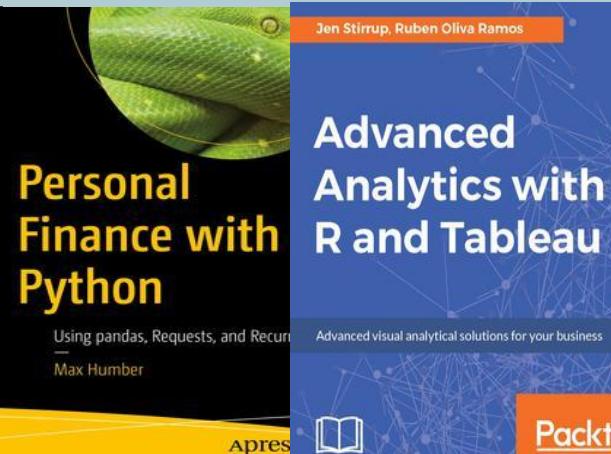
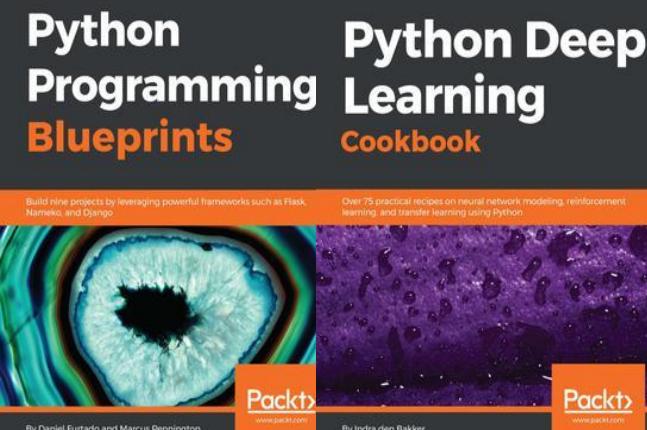


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Under the Hood of LLM

Dear Mr. Radovan Kavicky,

I trust this letter finds you in good health. It is with great honour and enthusiasm that I extend this formal invitation to you on behalf of the **Global AI Show**.

Your expertise and insights are highly regarded in the field of digital transformation. Recognizing your significant contributions to the advancement of technology and innovation, we believe that your participation as a speaker would greatly enrich the discourse at our upcoming event.

Event Name: Global AI Show

Date: 16 – 17 April 2024

Venue: Grand Hyatt Dubai Conference and Exhibition Centre

The Global AI Show Dubai serves as a prominent platform that brings together thought leaders, experts, and innovators from around the world to share knowledge and discuss the latest trends and advancements in artificial intelligence. Your perspective on the current landscape of AI and its prospects would undoubtedly captivate our audience and contribute to the overall success of the event.

We sincerely hope that you can honour us with your presence and insights. Your participation will not only benefit the attendees but also further promote the exchange of ideas and collaboration within the global AI community.

We would be more than happy to accommodate any preferences for topics you may have.

We kindly request you to confirm your availability.

Thank you for considering our invitation. We eagerly anticipate the opportunity to welcome you as a distinguished speaker at the Global AI Show Dubai 2024.

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