

The D ONE Starter Kit for Generative AI

OpenAssistant - How to Crowd-Source From 13'000 People and Make Them Think It's Fun Keynote

🕒 Jun 23, 2023, 09:20 - 09:55 GMT+2 🗺️
📍 Track 1 - Kongresssaal, Kongresshaus, Zurich

Speakers

Yannic Kilcher



The D ONE Starter Kit for Generative AI Sponsored Talk

🕒 Jun 23, 2023, 10:25 - 10:50 GMT+2 🗺️
📍 Track 1 - Kongresssaal, Kongresshaus, Zurich

Generative AI, spearheaded by household names like ChatGPT and DALL-E perform complex tasks with a form of semantic abilities. Many organizations strive to find ways on how to exploit this in an effective and secure way. We show the main building blocks of G-AI and how to generate business value, and explain why this innovation has both a 'Business as usual' as well as a 'Game Changing' impact. We are convinced that creativity, critical thinking, and good judgment just got a lot more valuable.

Speakers

Philipp Thomann
Marketing Consultant
D ONE



From Idea to Deployment in Production in just Three Months: How we built an Award-Winning Personalized Recommendation Engine for Books powered by current Trend Data and GPT-3 Poster Discussion

🕒 Jun 23, 2023, 12:40 - 12:55 GMT+2 🗺️
📍 Kongressvestibül, Kongresshaus, Zurich

Blinker is a book summation service that helps understand key insights from books. We implemented a recommendation engine powered by GPT-3 that uses CTN for ranking campaigns and reduced the editorial workload. We will present our insight into a real-world GPT use case and how to take a data product to production.

Speakers

Manuel Schlegel
Data Consultant
Blinker

Nazli Uzunur
Data Consultant
Blinker

Case Study: Natural-Language-Processing (NLP) With Open Data for Drug Repositioning on Glioblastoma Therapy Talk

🕒 Jun 23, 2023, 13:55 - 14:20 GMT+2 🗺️
📍 Track 3 - Saalzimmer 3-4, Kongresshaus, Zurich

The development and discovery of new drugs is a long, costly and risky endeavour with a low success rate. It is a well-known practice to identify new uses for already existing drugs or known active compounds, referred to as "drug repositioning" or "drug repurposing". This case study uses NLP techniques and publicly available data sources to explore their potential in identifying drugs for glioblastoma therapy beyond the obvious choices documented in established databases like DrugBank.

Speakers

Curdin Marxer
Research Assistant
DWAR Center (HUG)



Did Transformer Models Begin Terminator Era? Talk

🕒 Jun 23, 2023, 10:25 - 10:50 GMT+2 🗺️
📍 Track 2 - Vortragssaal 2, Kongresshaus, Zurich

ChatGPT have reached 100 million users in just a couple of months. This has led to a lot of questions around teaching, customer care, scientific research, marketing etc. This is why many questions are posed around responsibility and for all of us, and, at an even higher level, for those of us involved in what innovative measures have been undertaken by Microsoft. It is connected to a larger enterprise risk management system for responsible AI. Second - Responsible AI Standards and mitigating harms ahead of time, and ensuring that comes in the context of Azure OpenAI's Transparency Notes - which is the whole system. Code of Conduct - which defines the required Azure OpenAI - set of rules for models' training and fine-tuning of the logging and human review process. At the end, an overview of the participants afterwards to have tangible business value.

Speakers

Tomasz Pelczarski
Data & AI Principal Solution Specialist
Microsoft Schweiz

Hello Dolly: Democratizing the Magic of ChatGPT With Open Models Sponsored Talk

🕒 Jun 23, 2023, 12:10 - 12:20 GMT+2 🗺️
📍 Track 2 - Vortragssaal 2, Kongresshaus, Zurich

Curious how your company can benefit from large language models (LLM) like ChatGPT? Imagine if you could train your own model - customized to your specific data to meet your specific needs. Now you can build your own LLM. And Dolly - our new research model - is proof that this can train yours to deliver high-quality results quickly and economically. Some of the most innovative companies are already training and fine-tuning LLM on their own data. And these models are already driving new and exciting customer experiences. We believe models like Dolly will help democratize LLMs, transforming them from something very few companies can afford into a commodity every company can own and customize to improve their products.

Speakers

Jakub Augustin
Solutions Architect
Databricks

databricks

Large Language Models (LLMs) at Databricks



Automated Extraction of IoT Critical Objects From IoT Storylines, Requirements and User Stories via NLP Poster Discussion

🕒 Jun 23, 2023, 12:40 - 12:55 GMT+2 🗺️
📍 Kongressvestibül, Kongresshaus, Zurich

The first step to design a resilient Internet of Things (IoT) application is to identify IoT critical objects (services, devices and resources) in the design phase. However, this step is a time-intensive task, because they are manually identified from storylines, requirements and user stories and have other challenges. In this work, we assessed the usefulness of Named Entity Recognition (NER) models to automatically identify IoT critical objects as a way to make a modeling process faster and less prone to errors. This was performed with the development of five NER models based on five different architectures (Spacy, BERT, Transformers, LSTM-CRF and ELMo) that were trained and tested with a large dataset with 7300 annotated sentences. Our results indicate that the all NER models had a significant performance, but BERT had the best one and can be useful to support the time-intensive step of the early stages of the development of resilient IoT systems. Furthermore, these NER models have been evaluated to be understood by a framework to automatically extract IoT critical objects from requirements (storyline and requirements) and for all possible IoT

Transforming Text Documents to Graphs Using Natural Language Processing to Fight Financial Crime Poster Discussion

🕒 Jun 23, 2023, 12:40 - 12:55 GMT+2 🗺️
📍 Kongressvestibül, Kongresshaus, Zurich

Speakers

Doga Tekin
Principal Staff
Oracle Labs





Business as usual
AND
Game changing



The D ONE Starter Kit for Generative AI

The D ONE Starter Kit for Generative AI



Chocolate
Cool Ideas



Magnifying Glass
Look into the soul
of the transformer



Map
Landscape of
Generative AI and
Roadmap for
your Organisation



Booklet
Use Cases and
Showcases



My Businesscard
To talk about your
inspiring questions
and ideas



D Academy
Courses for
you

Chocolate

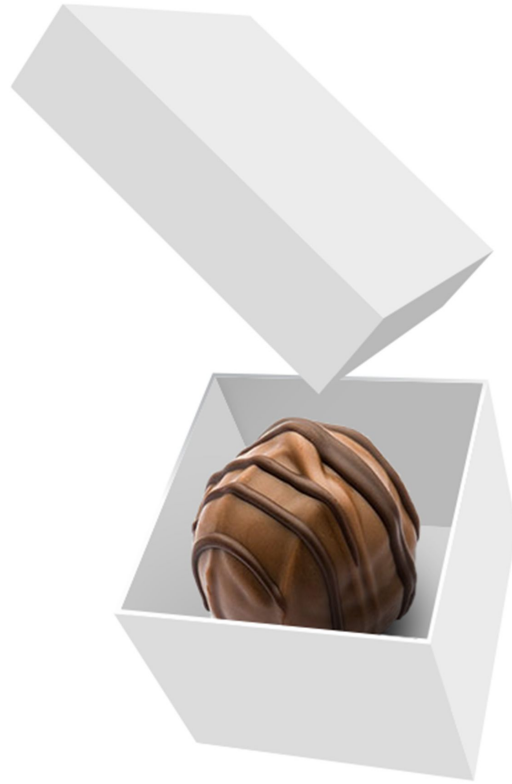


Image Generation in Data Science?

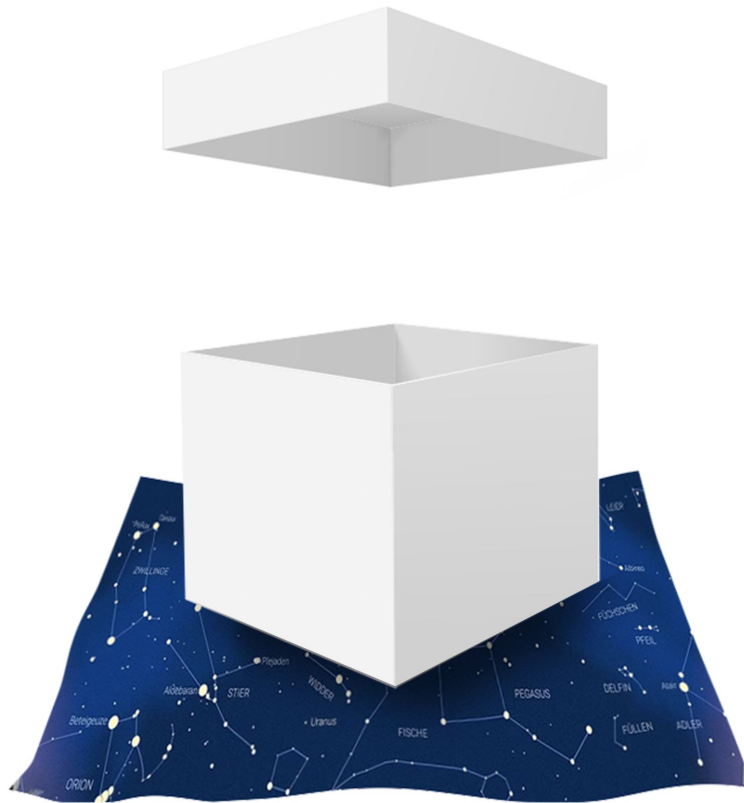
For the following (Bert-)Topics of Newsgroups clusters:

meat, organic, food, beef, emissions, eat, of, eating, is	the, explosion, atmosphere, eruption, kilometers, of	immune, system, your, cells, my, and, is, the, how, of	moon, earth, lunar, tides, the, water, orbit, base, moons	eu, european, democratic, vote, parliament, union	plastic, plastics, tons, pollution, waste, microplastics, polymers
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Which Image denotes which topic cluster?



Map



Roadmap for Your Organisation



Booklet

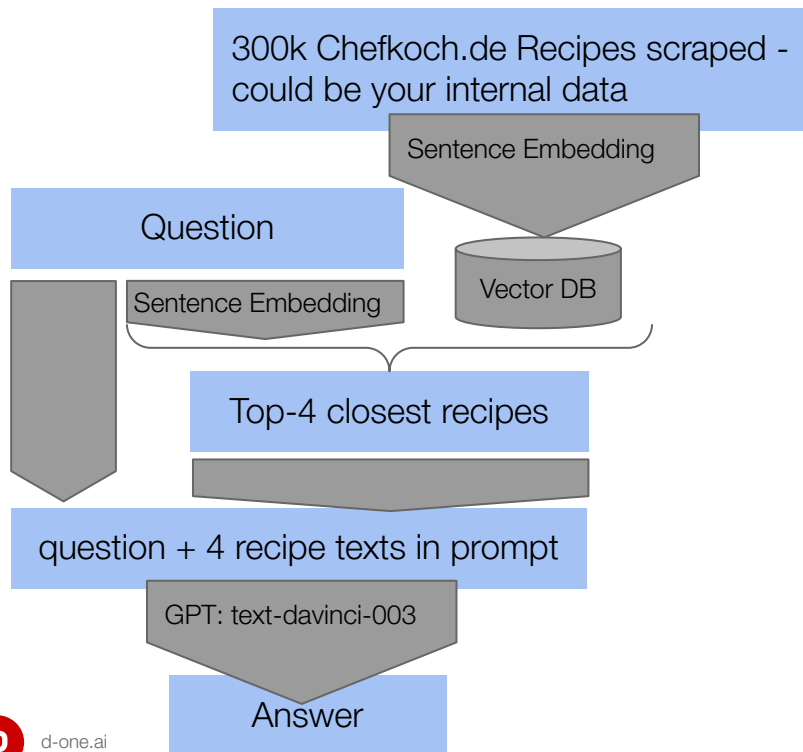


Potential Use Cases



- Wherever you use NLP today (e.g. summarisation)
- Decision Automation
- Routing (e-mail management)
- Text generation (e.g. for documentation)
- Understanding / reformulating code
- Understanding / reviewing documents (lots of)
- ...

Showcase for Question Answering of your Data



Chatkoch

Using Transformers and OpenAI for 300k Chefkoch Recipes

Enter your search here

Um eine Lasagne mit Pilzen zuzubereiten, brauchst du die folgenden Zutaten: Pilze, Bandnudeln, Hackfleisch, Zwiebeln, Tomatenmark, Fertigmischung, Margarine, Sahne, Käse, Salz, Pfeffer, Mehl und Fondor. Koche zuerst die Bandnudeln und schrecke sie mit kaltem Wasser ab. Brate anschließend das Hackfleisch an und gib die Zwiebeln hinzu. Würze alles mit Pfeffer und Salz und verarbeite es nach

- **Lasagne ohne Platten (Score 76.3%):**

Zuerst die Bandnudeln kochen und mit kaltem Wasser abschrecken. Jetzt das Gehackte a Bei 175° ca. 20 min. überbacken.

Dazu schmeckt hervorragend ein grüner Salat (z. B.: Eisbergsalat) in Joghurt-Sahne

- **Vegetarische Lasagne (Score 75.6%):**

Zuerst den Ofen auf 200 °C (Ober-/Unterhitze) vorheizen und eine Auflaufform einfett

Einen großen Topf mit gesalzenem Wasser zum Kochen bringen und die Möhren hineingebe

Magnifying Glass



Transformer - Conveyor Belt of Vector Representations

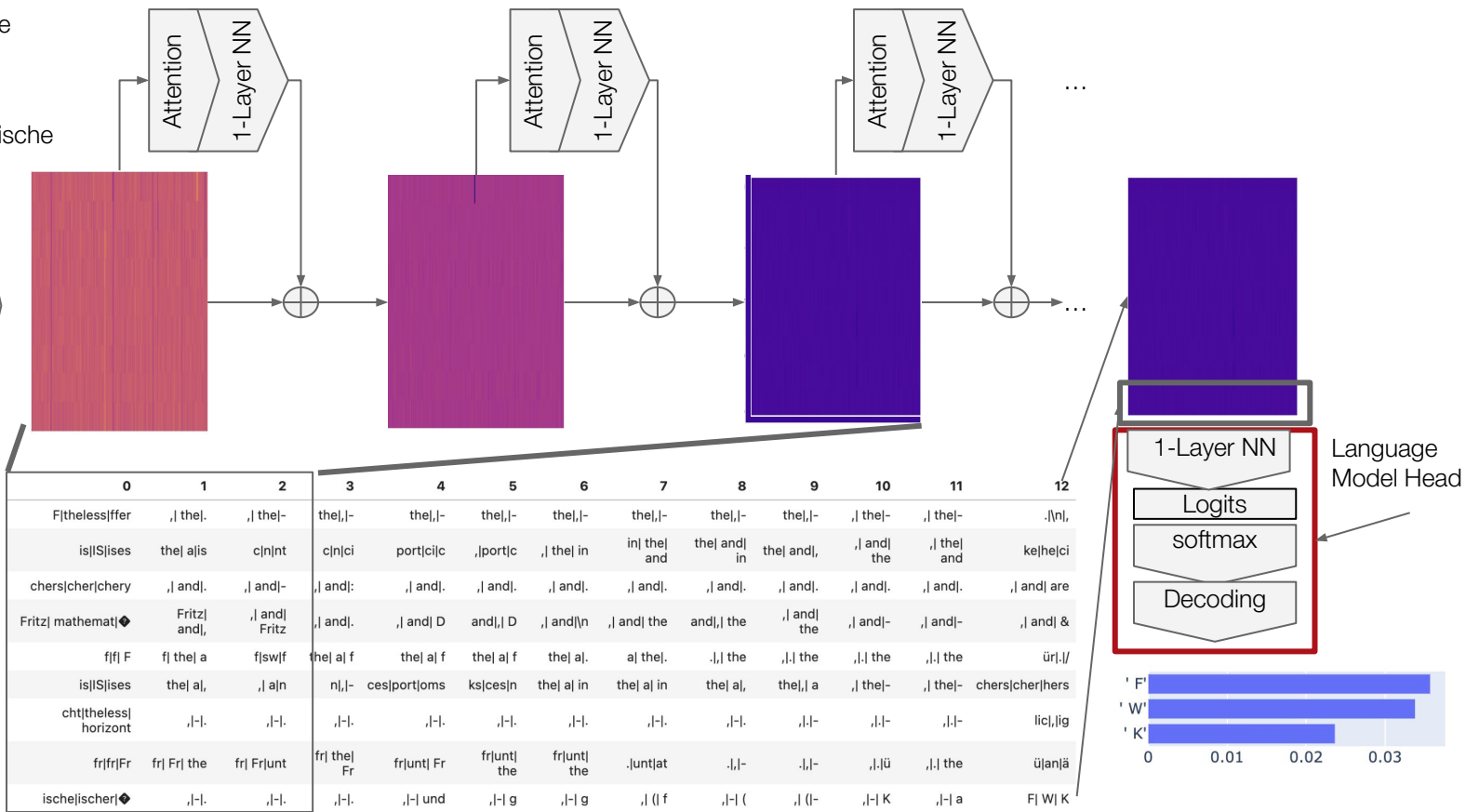
Fischers Fritz fischt frische

Tokenization

F|is|chers| Fritz| f|is|cht| fr|ische

'F'
'is'
'chers'
' Fritz'
' f'
'is'
'cht'
' fr'
'ische'

Vector Embedding
+ Positional Encoding



D Academy



**D**

Academy

Challenges are growing fast. Grow too.

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We also offer tailor-made workshops for your teams, to your specifications.

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or academy@d-one.ai

D Academy stands for world-class trainings. For participants with the ambition to gain the knowledge of a front-runner - field-tested - with a down-to-earth approach - in order to gain the competitive edge in the rapidly evolving world of data.

D Academy - where you go to grow.

Primer in Generative AI for Business

Generative AI is shaping business as much as the internet did. You need to understand it

July 2023, 14-17h

Data Modeling Foundations

From basics to Data Vault - build sustainable and scalable data models

July 2023, 13-16h

Operating with textual data: NLPeasy

Knowledge is primarily available as unstructured text. Learn how to harness it

August 2023, 14-17h

Lakehouse DataOps with Databricks

Productive data is hard. Learn what it takes to master it.

September 2023, 13-17h

AI for Leaders

Data and Analytics are key success factors for every company - learn how to create value from your data

July 2023, 8-11h

Power BI Masterclass

Supercharge your data insights - power data driven decision making

August 2023, 13-17h

Data Mesh

Value creation is a team sport - empower your teams with Data Mesh

August 2023, 13-17h

Data Visualization

Convince your stakeholders with efficient and effective storytelling

August 2023, 13-17h

**D**

d-one.ai

www.academy.d-one.ai

My Businesscard



The D ONE Starter Kit for Generative AI



Chocolate
Showcases of applications



Magnifying Glass
Look into the soul of the transformer



Map
Landscape of Generative AI and Roadmap for your Organisation



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Cool Ideas and Use Cases



My Businesscard
for inspiring Talks



D Academy Course
for you



The D ONE Starter Kit for Generative AI

starterkit.d-one.ai

A deep space galaxy field with a central starburst and blue crosshairs. The background is filled with numerous galaxies of various shapes and colors, including spirals, ellipticals, and irregulars. A bright starburst is located in the upper center, with four blue lines extending outwards from it. The text is overlaid on this background.

Creativity

Critical thinking

Good judgement

Let's Generate!

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