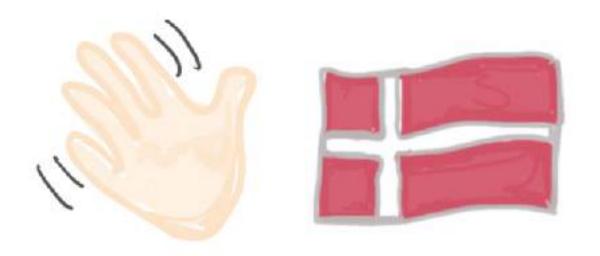
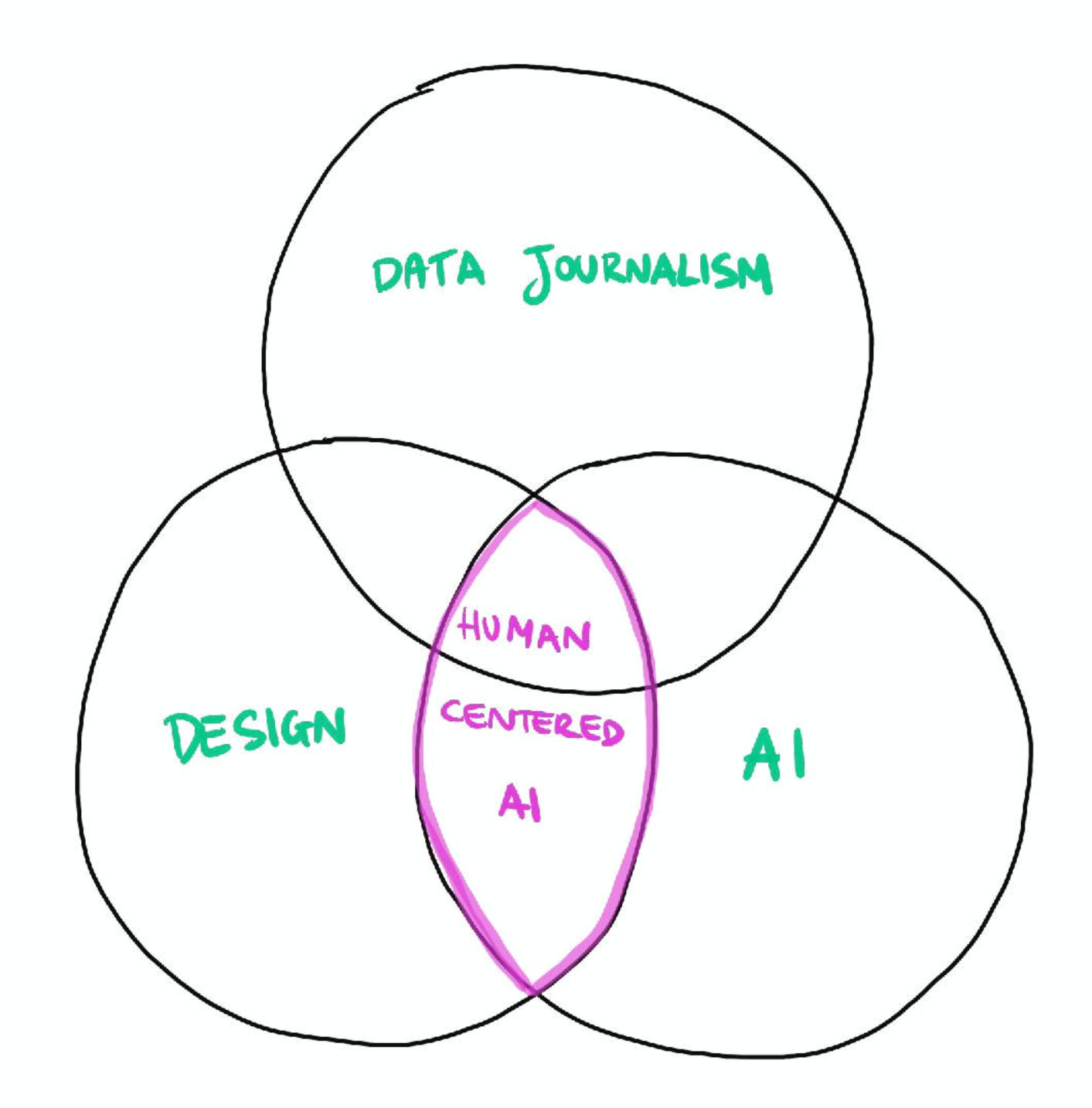
Human-Centered AI From principles to practice

Mara Pometti, Associate Design Director McKinsey & Company



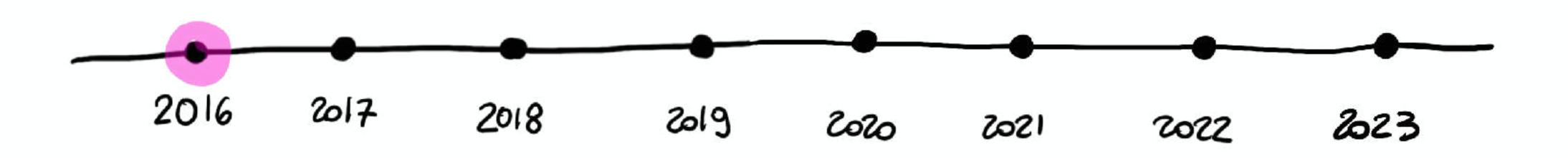
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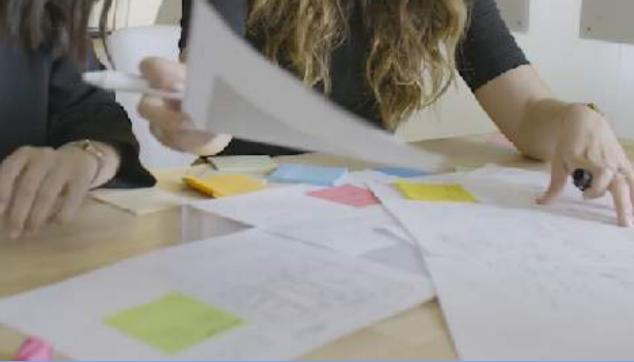






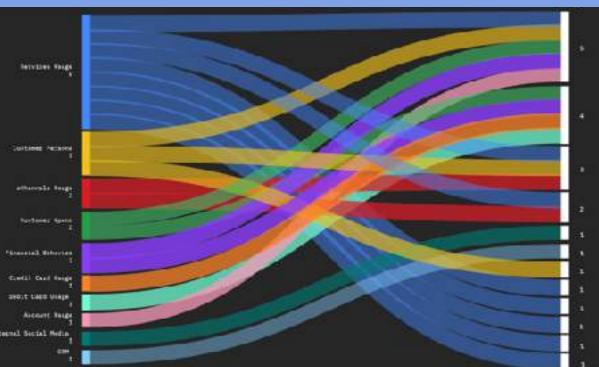
DATA FIRST, Al SECOND



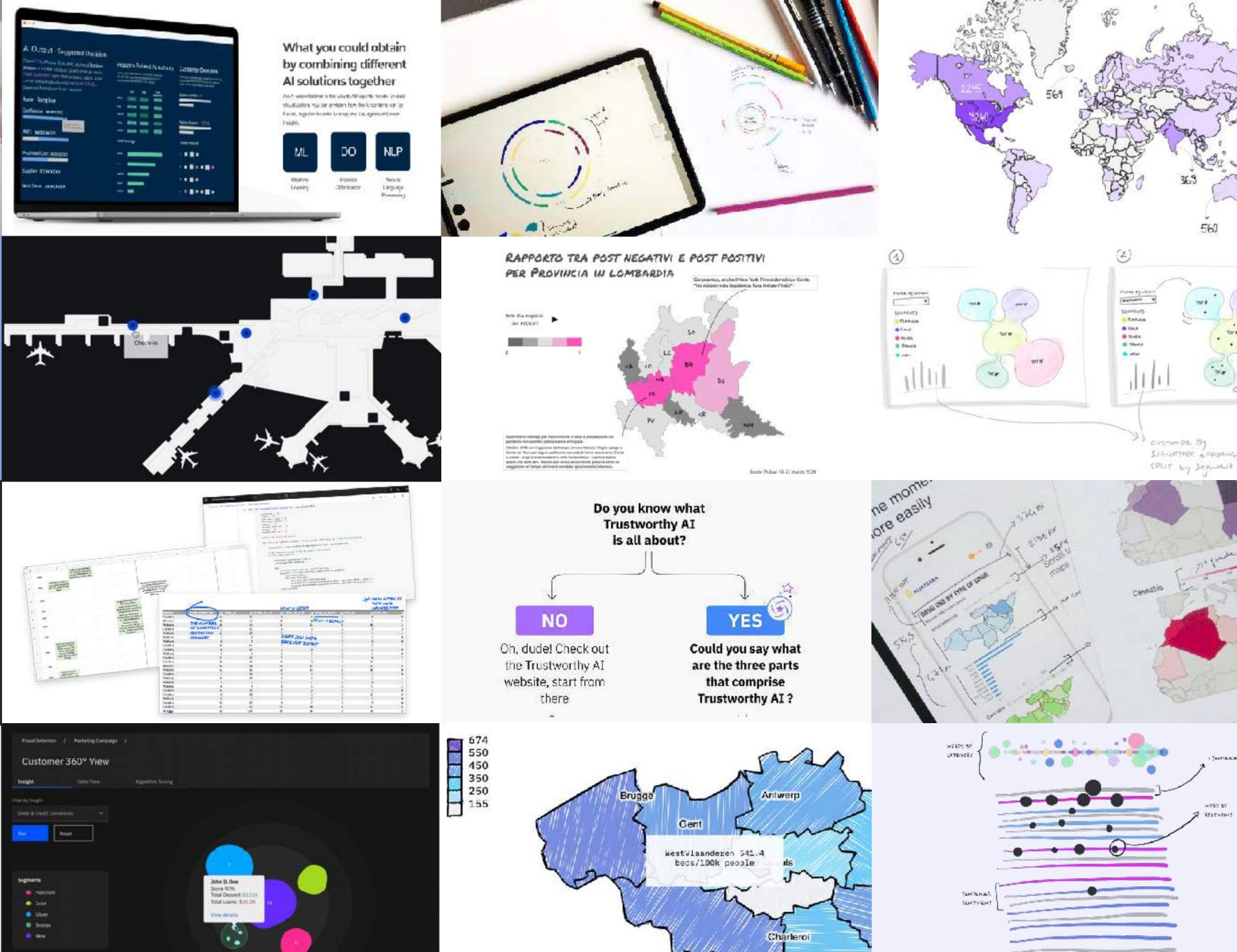


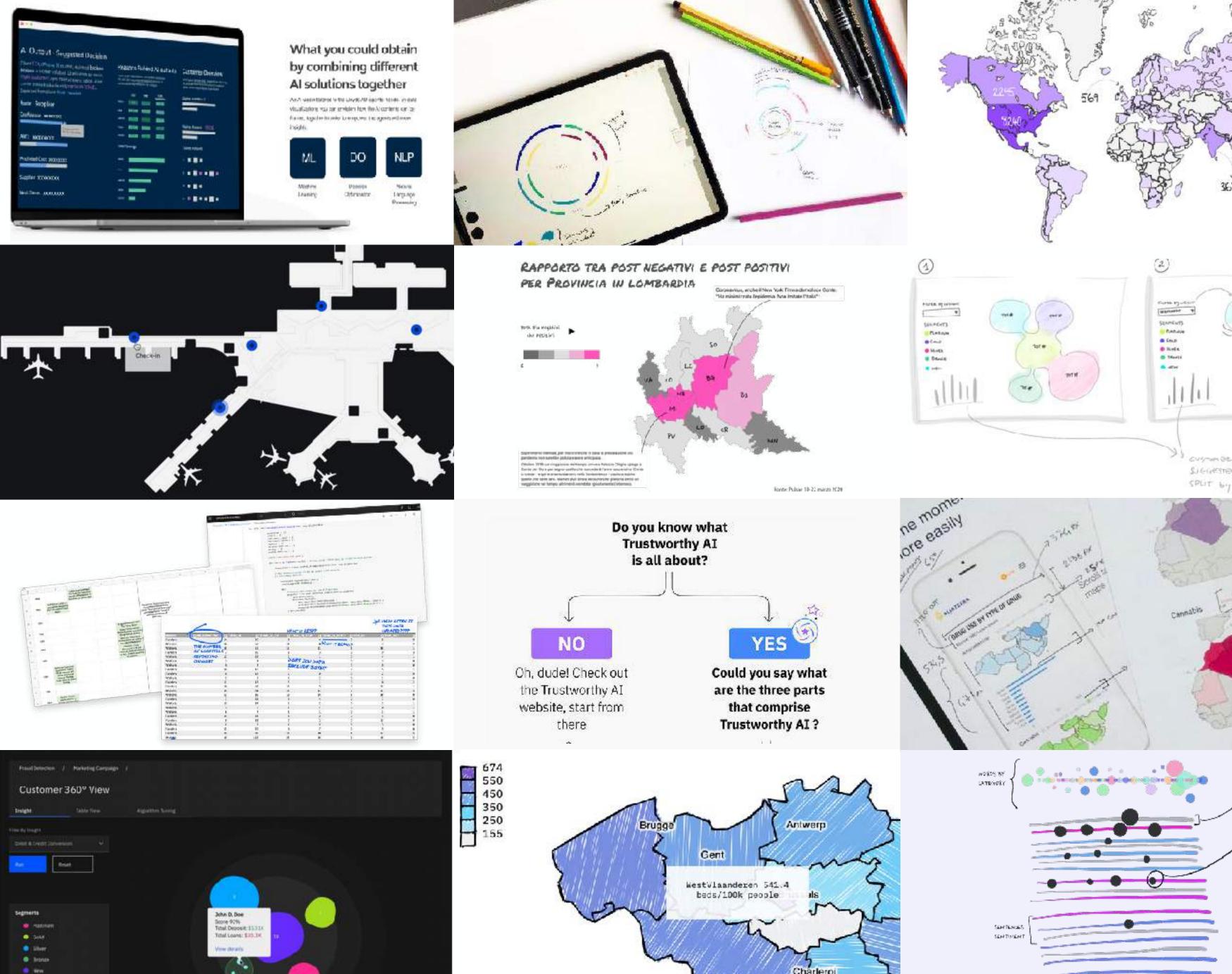
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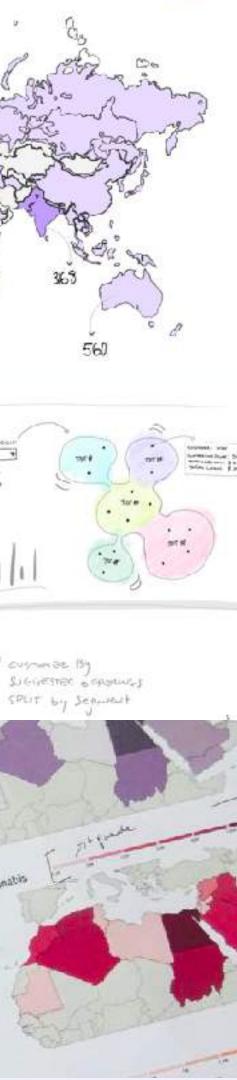








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MEKS BL

SANTANCE

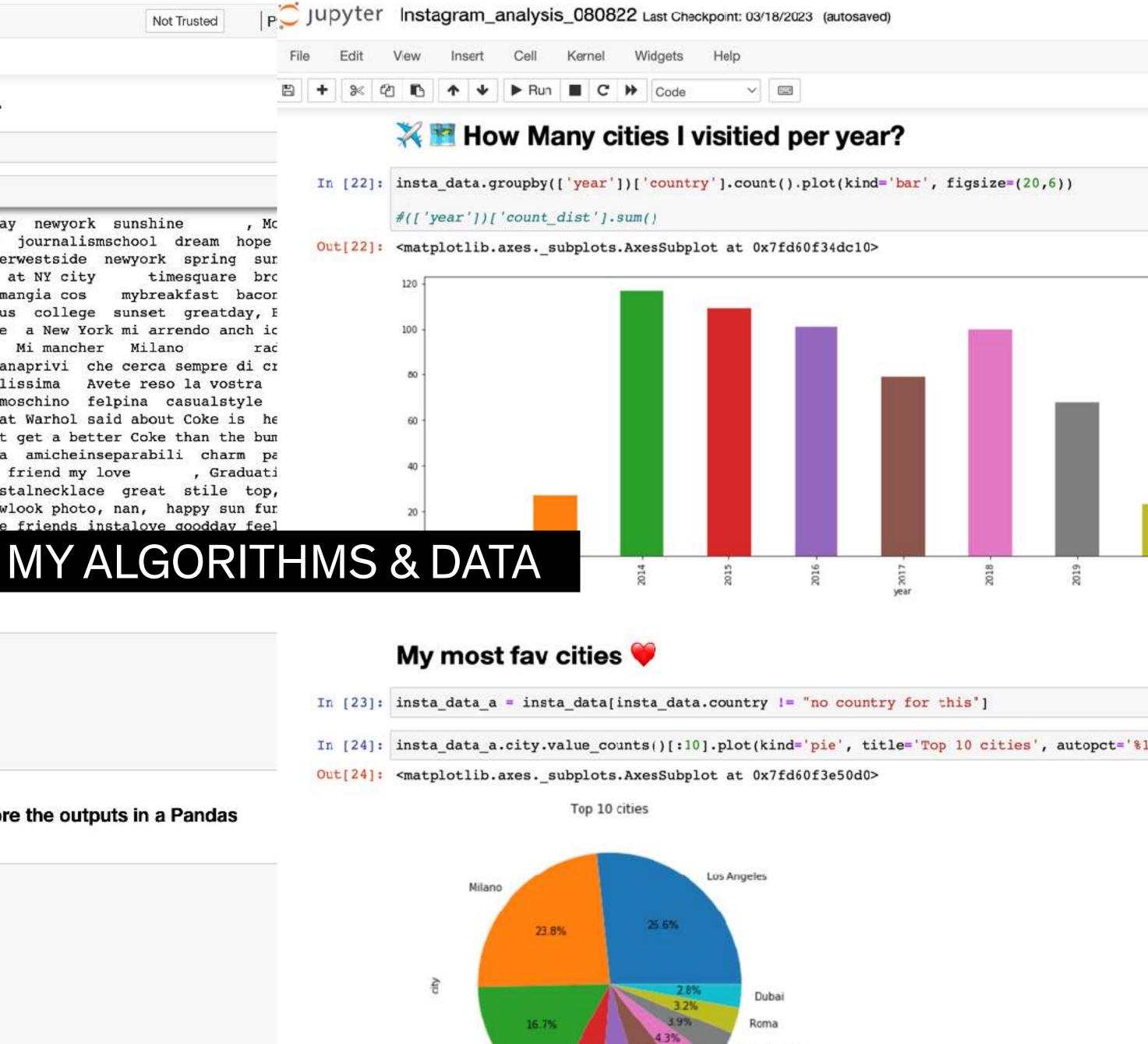
A SELEVANCE

Edit	View Insert Cell Kernel Widgets Help	Not Trusted
8	42 1 ► Run ■ C → Code ~	
	Apply the spaCy language model to the entire collection of posts' text.	
n [16]:	<pre>docs = list(nlp.pipe(insta_data.text))</pre>	
n [17]:	print(docs)	
	[party cunnecticut sunshine , Meatpacking highline, gooday newyork sunt of the best journalism school in the world Tears columbiauniversity journalismschool brooklynbridge abroad photo, americaneaster Gabry , upperwestside newy goodday, sunset tarrytown me selfi newyork sun, First Saturday night at NY city set newyork amazing wow landscape, Buongiorno la domenica mattina si mangia cos my ay , timesquare broadway newyork taxi musical life, mycampus college sun PLENDORE newyork rockfeller topoftherock mytrip, Via tacchi e stringate a New York mul Nike Town sicammina nike manhattan, ultimo venerd milanese Mi mancher M n fridaynight, Grazie a tutti Un grazie speciale per va anche a luanaprivi che ce ti indimenticabili grazieamicamia, Mi avete fatto una sorpresa bellissima Avete stra felice imieiragazzi adolescenti gruppoado vi voglio bene , moschino felpin eniche migliori solo al Fellini singleparty ape serata club, What Warhol said at I really like about Coca Cola is the president of the United States can t get a better of ner of the street warhol popart americanculture, 2014 newyork roma amicheinsepar me smile fun fine2013 lastday ready, nan, triopapete liveitup, Best friend my love , nan, dettagli necklace love sexandthecity style Carrie herlovecrystalnecklace gp pende sempre con me , I m singing in the rain , me newlook photo, nam ge, Cannes , montecarlo, havefun labellavita ape papete solopapete friends insta	ool dream york spri timesqua ybreakfast nset grea i arrendo Milano erca sempr reso la v na casual about Coke Coke than rabili ch , G reat stil n, happy love goodd

Define a function to extract all the properties of each word

Define a function to apply the function above to all documents and store the outputs in a Pandas dataframe

```
n [19]: def tidy_tokens(docs):
    """Extract tokens and metadata from list of spaCy docs."""
    cols = [
        "doc_id", "token", "token_order", "lemma",
        "ent_type", "tag", "dep", "pos", "is_stop",
        "is_alpha", "is_digit", "is_punct"
    ]
    meta_df = []
    for ix, doc in enumerate(docs):
        meta = extract_tokens_plus_meta(doc)
        meta = pd.DataFrame(meta)
```



Santa Barbara

Chicago

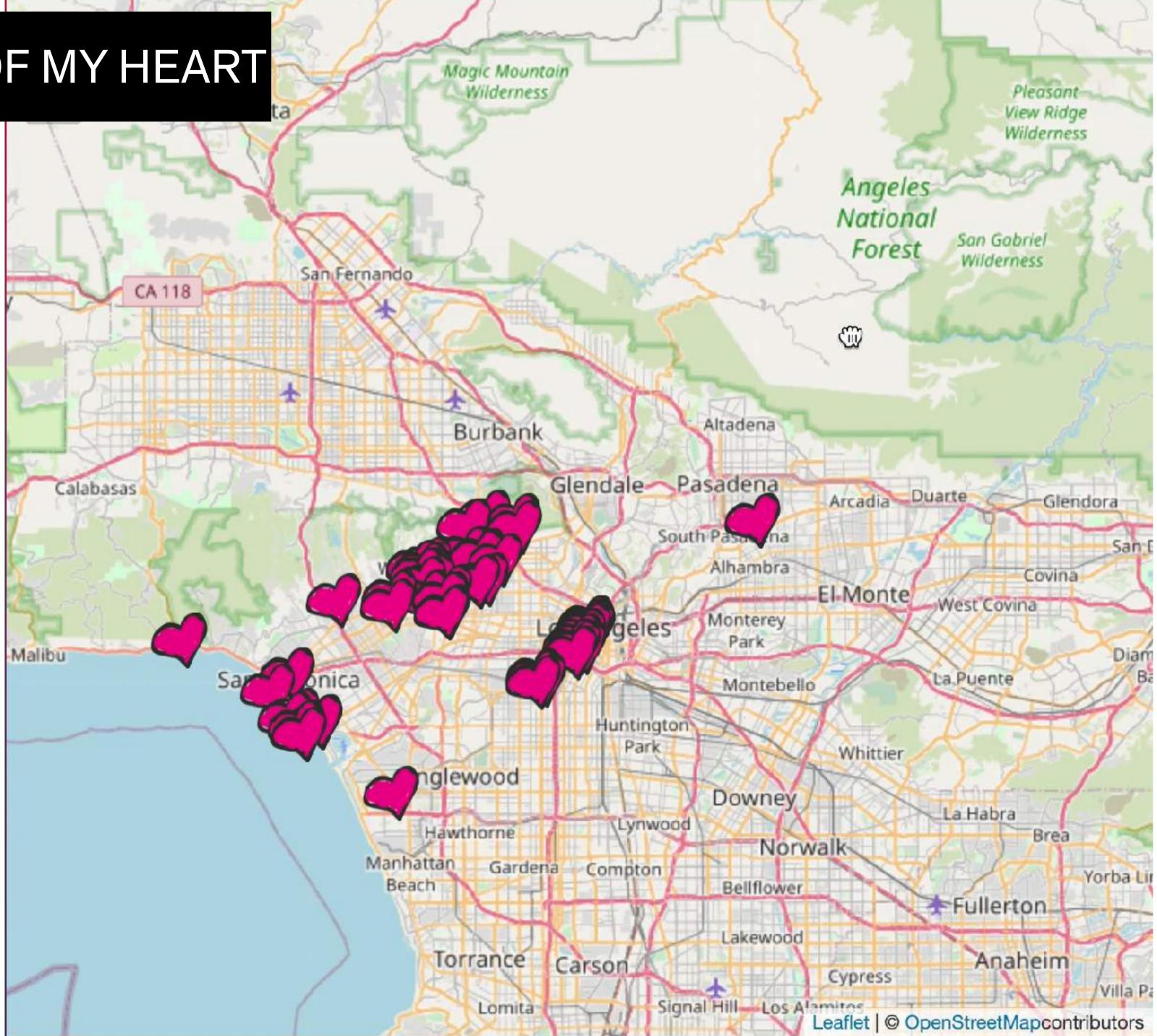
Vancouver

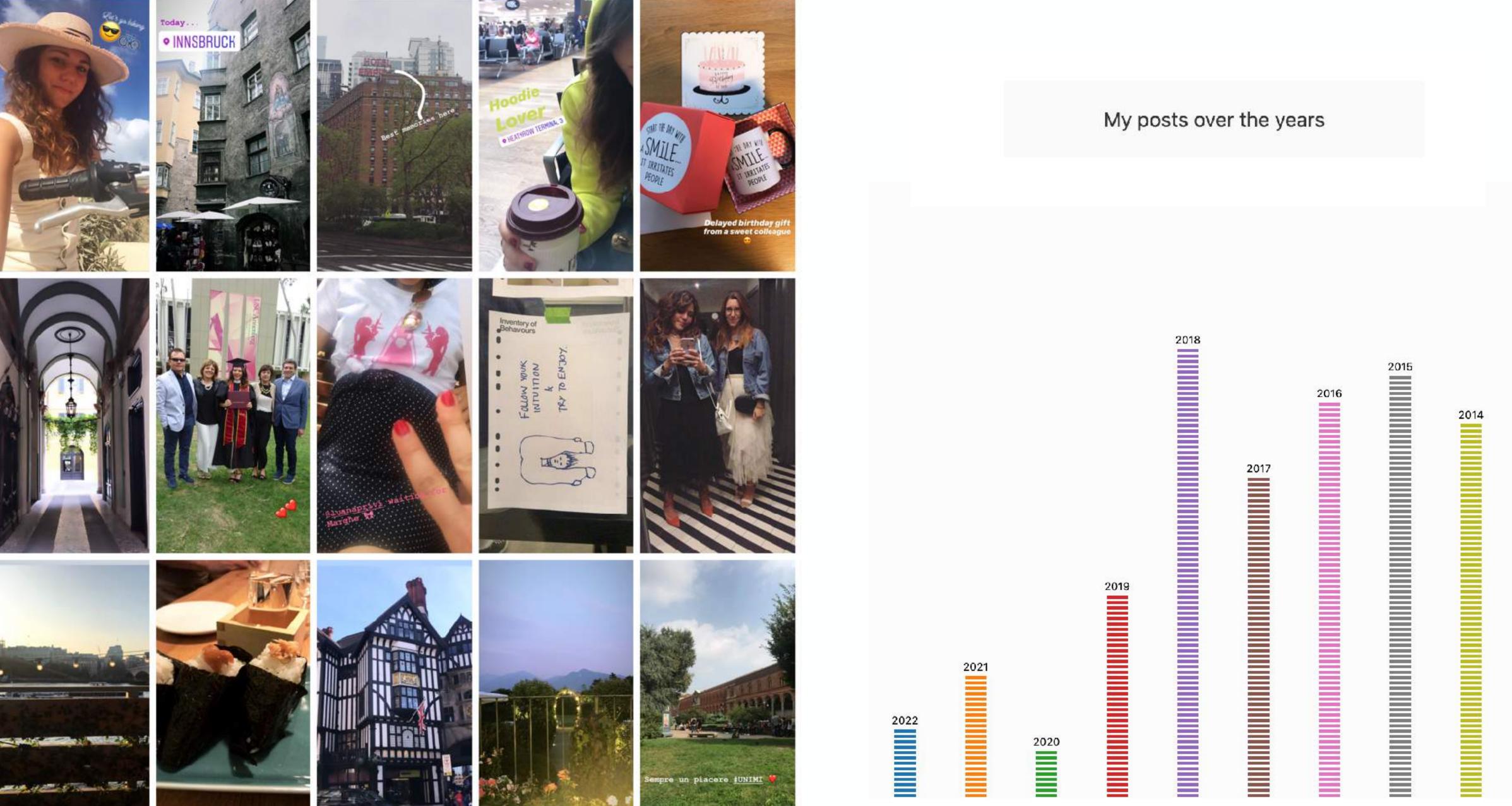
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City of New York

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THE CITIES OF MY HEART

















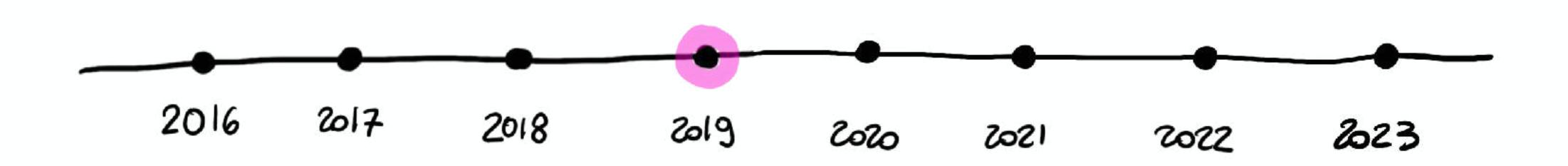
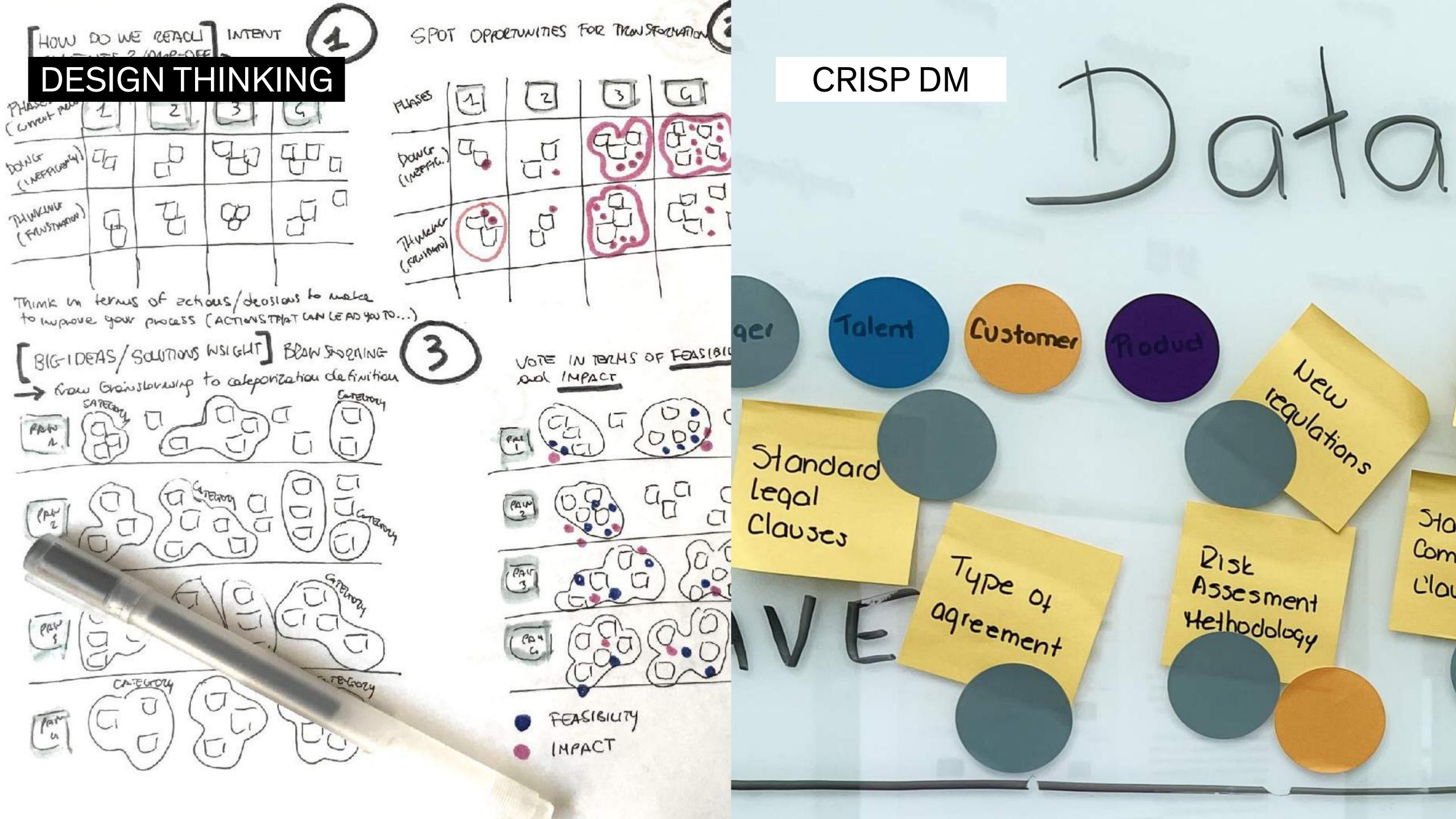
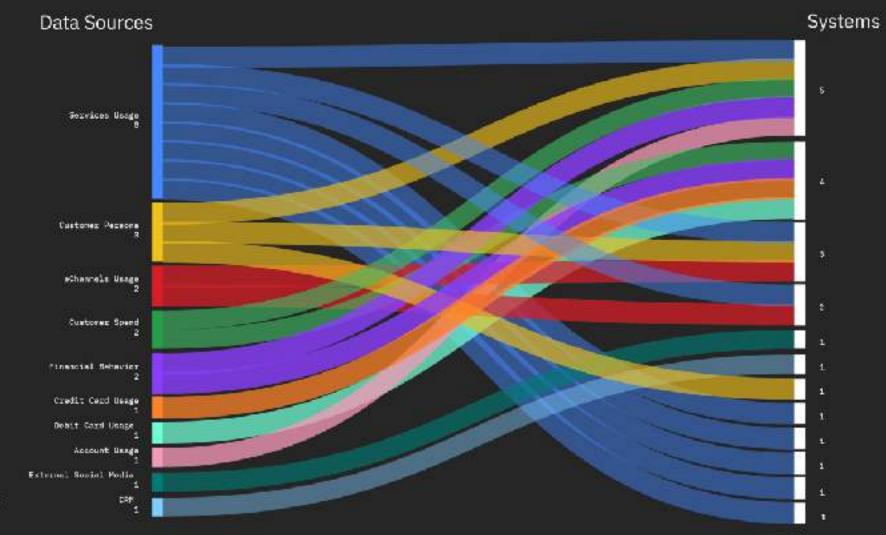


CHART A PATH TO AL THROUGH STORIES



DATA VISUALIZATION

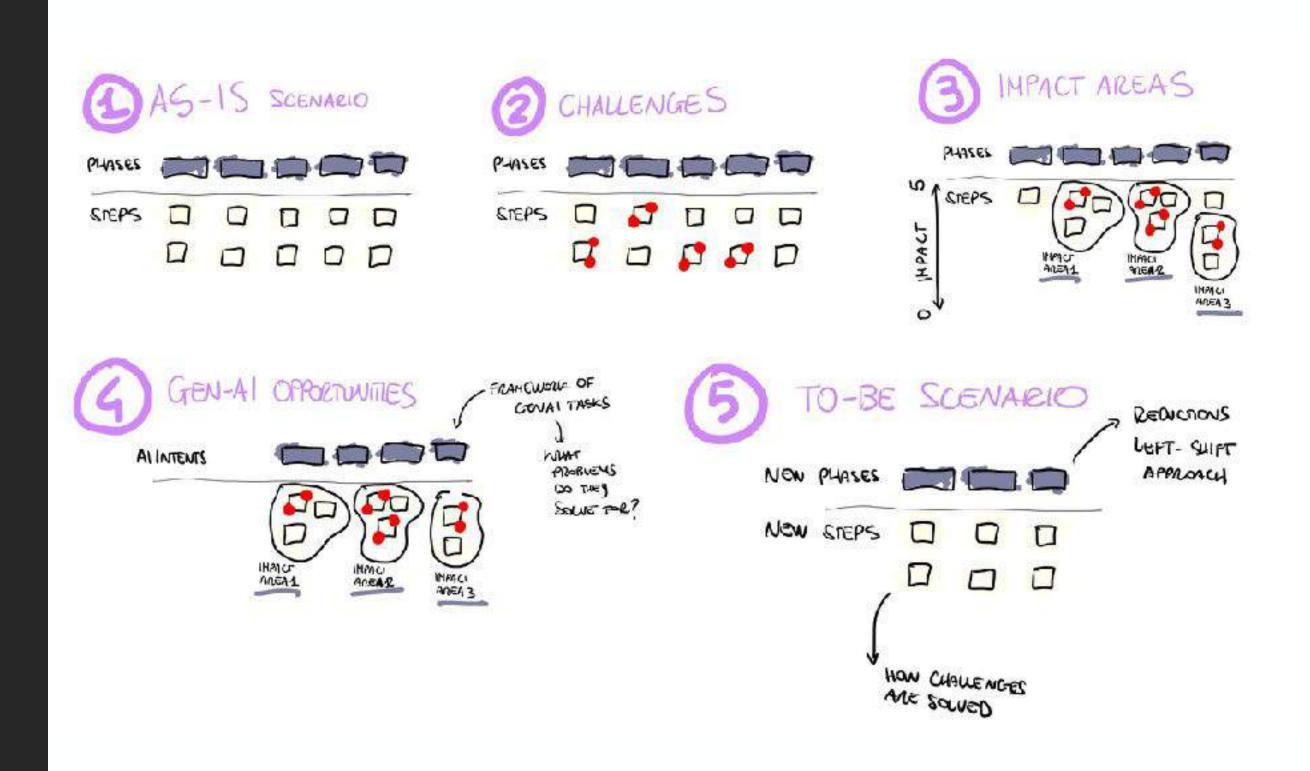
Data Understanding



The activities of the workshop revealed how the data sources listed map to the systems.

The mostly used system will be core banking, which includes the majority of the information.

DESIGN THINKING



Moving Forward: Al Opens Up New Horizons for Data Visualization



Mara Pometti Published in Nightingale - 6 min read - Jan 3, 2020



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ne Frame -24 H	14:34:56	+ 24 H Tree Frame	Total Amount: Past unachrist anomalias plus to day anomalias. Loran lyourn dolor sit arrest, consectatuar adiplecing elit, selt daen neuromety ratin sulamod tinciduart ut teorest dolore magns aliquism end.
			team team
	Collect College		Asset Information GALLOPER OFFSHORE WIND FARM, located 7km off this object of Suffolk, England, UK, in 27-36m water depth, GOW has 56 x 6.3MW, Siemens turbines with a total capacity of 353 MM, powering the equivalent of 380,700 average UK households anniusly: - 56 buried subsea array cables - Two buried subsea array cables - Two 0.85km onether England, UK - One 33kV/12 - Max blad:

The next generation of storytelling

How can AI help us discover new ways to create and tell stories?



Mara Pometti

Published in AlxDESiGN · 8 min read · Aug 2, 2021

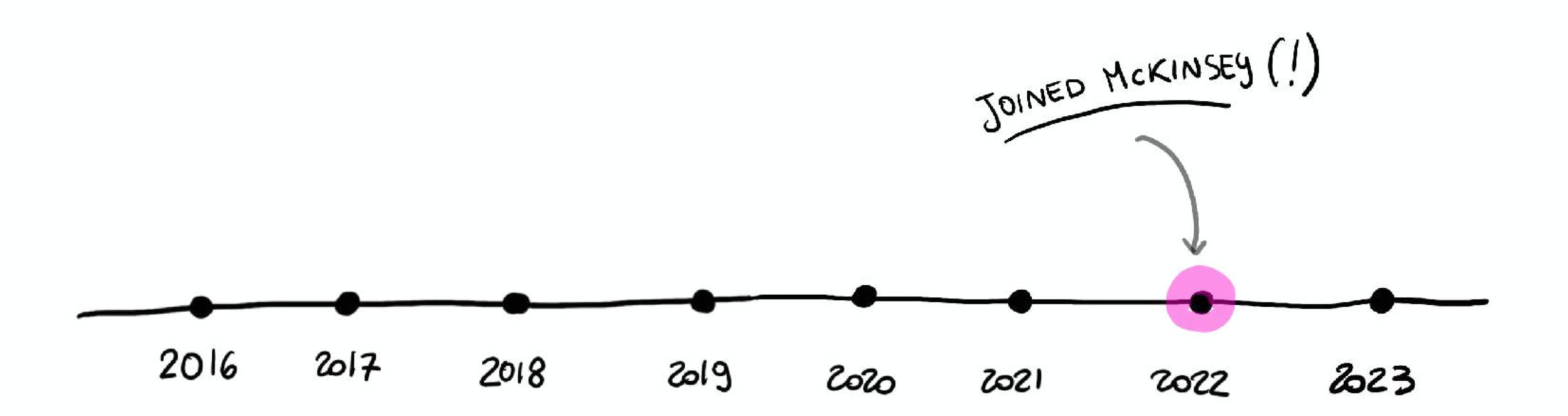
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Explaining AI with visual narratives

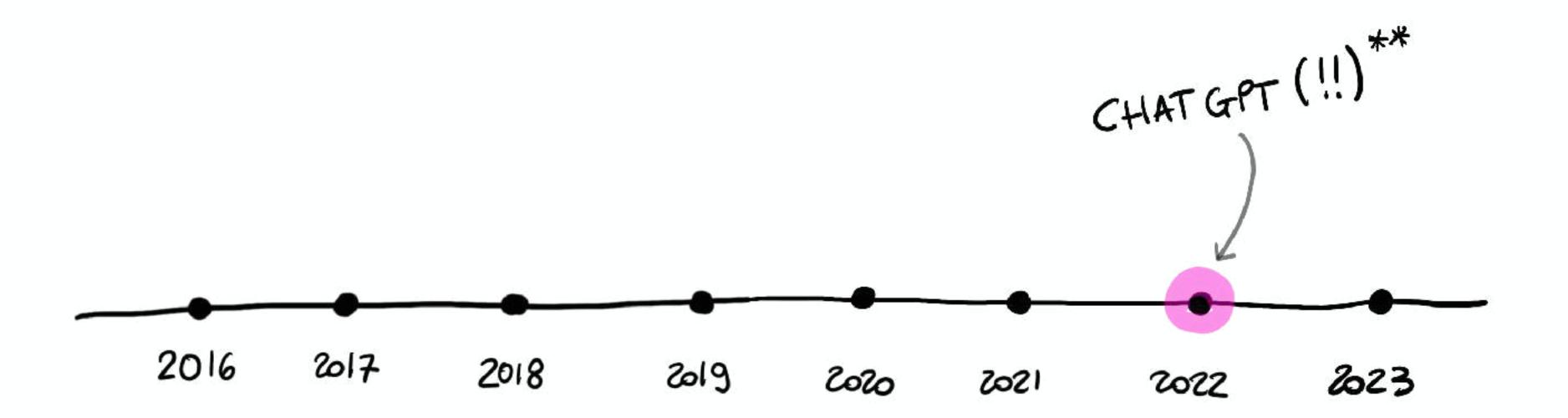
I heard a song recently on one of Spotify's curated "Made for You" playlists, and it hit me that I hadn't heard that particular song in ages. I used to listen to it constantly and Spotify didn't even exist back then. How could its algorithm possibly have known it was relevant to me? Yep, that's a rhetorical question. Surprise, surprise: it isn't only historical data that feeds algorithms.

```
def standard_requirements(doc, new_skipwords):
    sentences = []
    length = []
   sentiment_label = []
   sentiment_score = []
    keyword = []
   keyword_emotion = []
   entity = []
   entity_emotion = []
   print("Starting Analysis")
   for sents in tqdm(doc.sents): #using spaCy functionality to parse each phrase
       clean_text = clean_custom_skipwords(sents.text, new_skipwords)
       # the sentence needs to be at least 5 characters
       if len(clean_text)>5:
           sentences.append(sents.text)
           length.append(len(sents))
           try:
               # sending the phase to the NLU service
               response = natural_language_understanding.analyze(
                   text=clean text,
                   features=Features(
                       sentiment=SentimentOptions(),
                       entities=EntitiesOptions(emotion=True, sentiment=True, limit=2),
                       keywords=KeywordsOptions(emotion=True, sentiment=True,limit=1))
               ).get_result()
               try:
                   # extract sentiment label and score per each phrase
                   sentiment_label.append(response["sentiment"]["document"]["label"])
               except:
                   sentiment_label.append("null")
               try:
                   sentiment_score.append(response["sentiment")["document"]["score"])
               except:
```



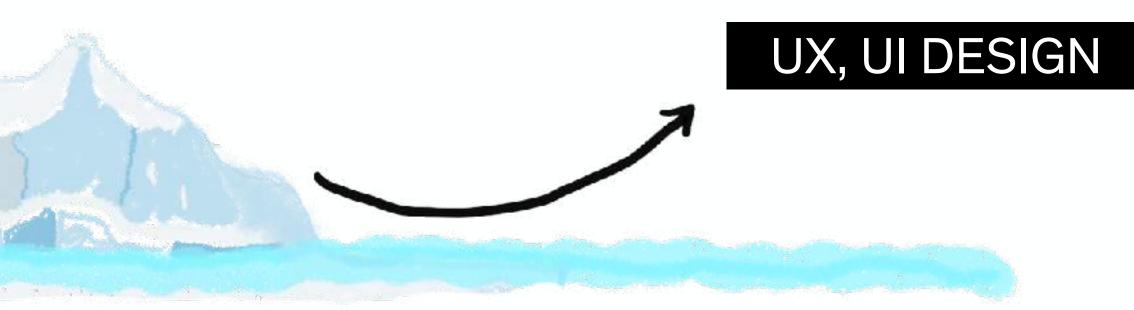


McKinsey & Company



LOOK BENEATH THE SURFACE

.

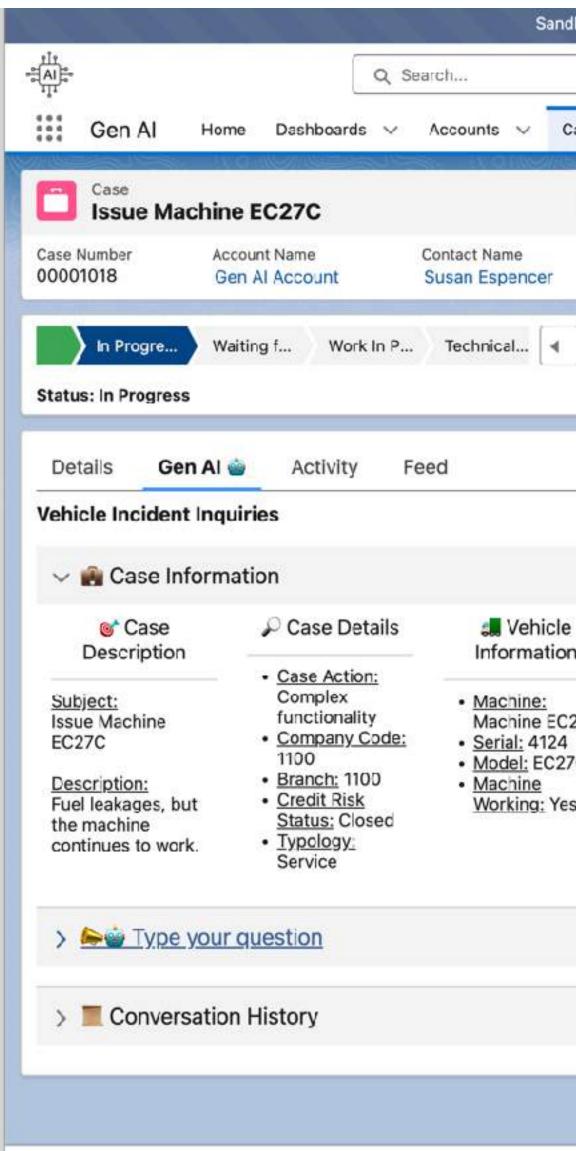




UX, UI DESIGN

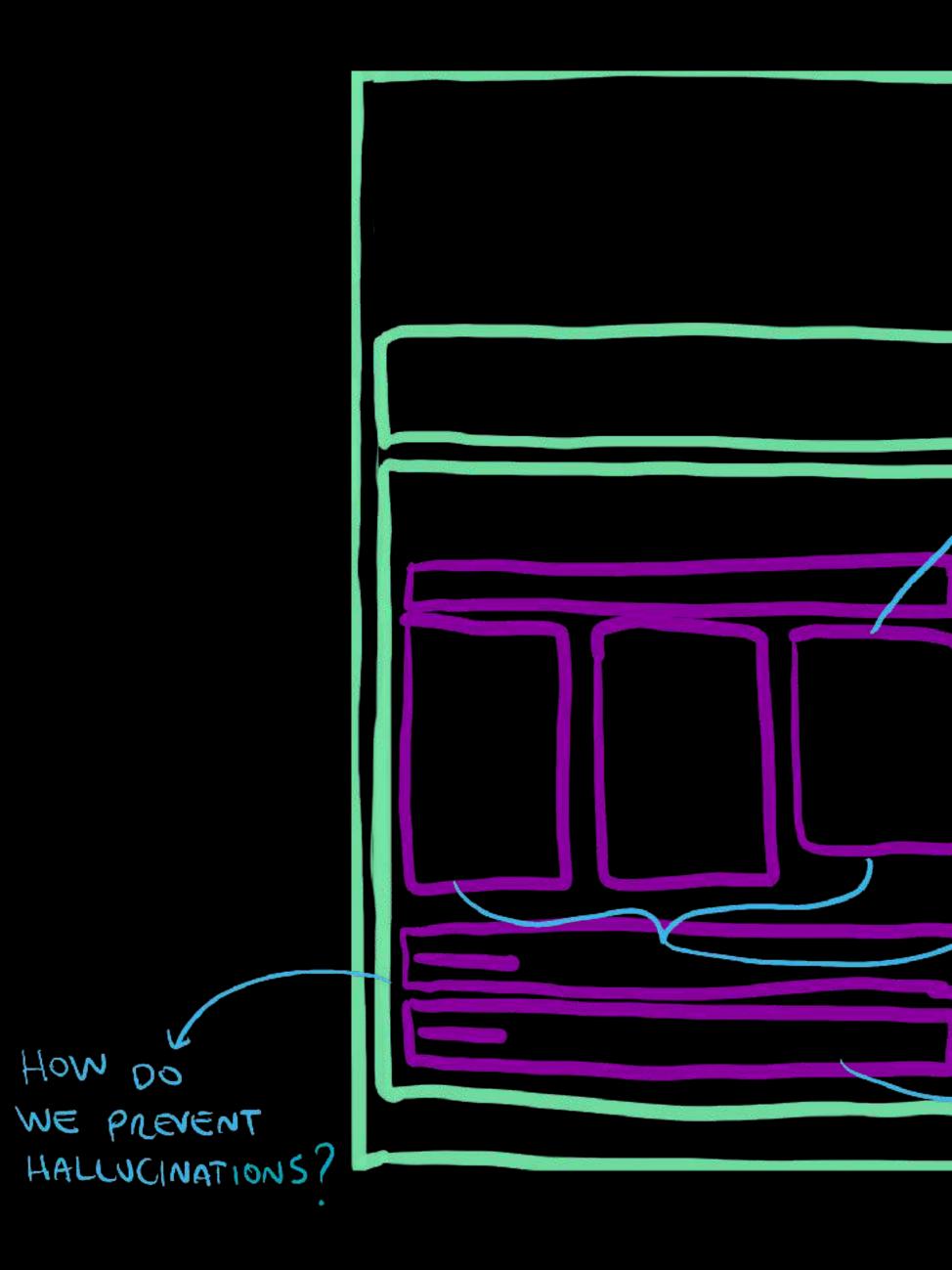


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Case Issue Machine EC27C			+ Follow Edit Delete Change Owner Clone Shar	ing 👻
✓ m Case Information			Description Fuel leakages, but the machine continues to work.	1
Case Description	🔎 Case Details	I Vehicle Information		
Subject: Issue Machine EC27C	 <u>Case Action</u>: Complex functionality Company Code: 1100 	 <u>Machine</u>: Machine EC27C Serial: 4124 	Open Activities (0)	
Description:	 Branch: 1100 Credit Risk Status: Closed 	 Model: EC27C Machine Working: Yes 	Activity History (0)	
Fuel leakages, but the machine continues to work.	Typology: Service		Case Comments (0)	
🗸 🌬 Type your question			Case History (S+)	
 Clearly articulate your questions and provide Critically evaluate the information received as Enter the error codes separated by commas Type your question What is What is the most relevant service bulletin at 	s the AI model may inadvertently hallucinates.	e accurate answers.	Date: 9/7/2023, 5:26 AM Field: Subject User: Pable Elorga Original Value: Issue Volvo EC27C New Value: Issue Machine EC27C Date: 9/7/2023, 5:26 AM Field: Description User: Pable Elorga Original Value: New Value: New Value: Pable Elorga Original Value: New Value: Date: 8/29/2023, 1:59 AM Field: Type User: Pable Elorga Original Value: New Value: New Value: Sample Cases	
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Model - Serial Number EC27C-4124	Date/Time	Opened 3, 5:54 AM	
20270-4124	0/20/202	5, 5-54 AW	
Case Deta	ails		
Case Number		Case Cwner	
00001018		Pablo Elorga	
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Subject Issue Machine E0	C27C		
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	ut the machine co	ontinues to work.	
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Data	0/7/2022 5:20	C AM	
Date: Field:	9/7/2023, 5:20 Subject		
User: Original Value:	Pablo Elorga Issue Volvo E	2270	
New Value:	Issue Machine		
Date:	9/7/2023, 5:2	6 AM	
Field:	Description		
User: Original Value:	Pablo Elorga		
New Value:			
Date:	8/29/2023, 1:	59 AM	
Field:	Type		





7 HOW THE AGENT READS DOCUMENTS ?

WHAT CUSTONER DATA > DO WE NEED ?

WHAT'S THE NEW USER JOURNEY?

7

COVPLEXITY



START FROM AL INTENTS

Question Answering

Content generation

Semantic search

Information retrieval

Summarization

Rewriting

Content generation

Question Answering

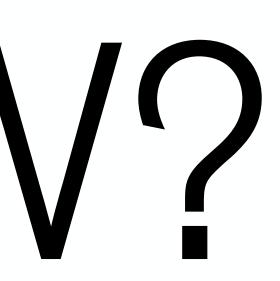
Information retrieval

Semantic search

Rewriting

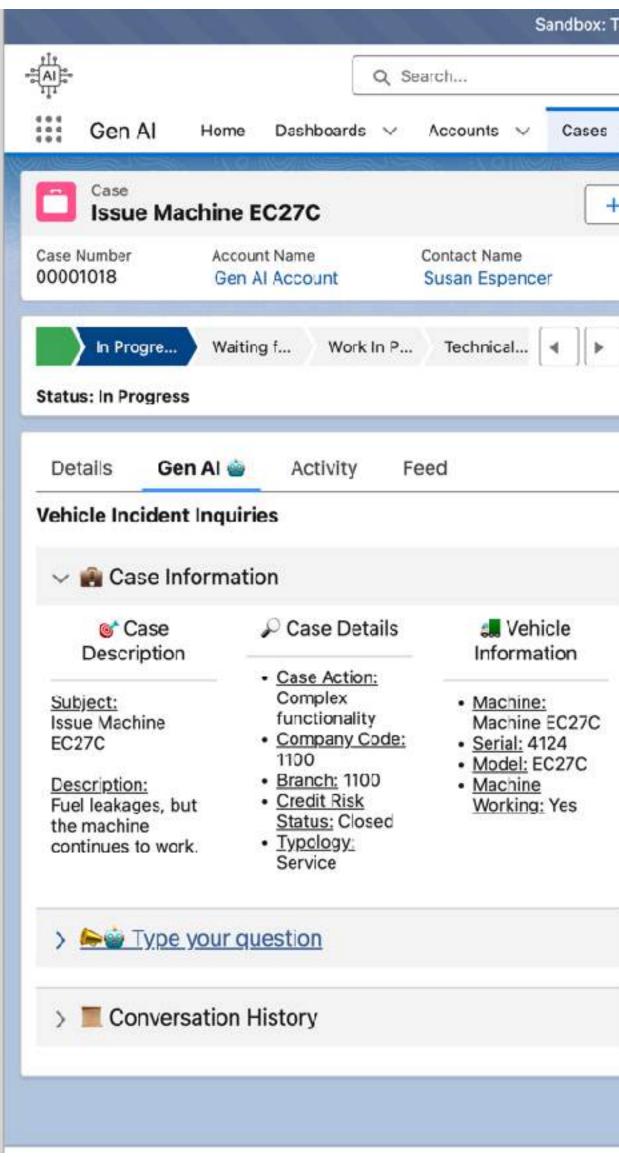
Summarization

HOM/?



Content generation	Augment skills
Question Answering	Condense Information
Information retrieval	Simplify complexity
Semantic search	Find similar information
Rewriting	Accelerate writing
Summarization	Automate tasks

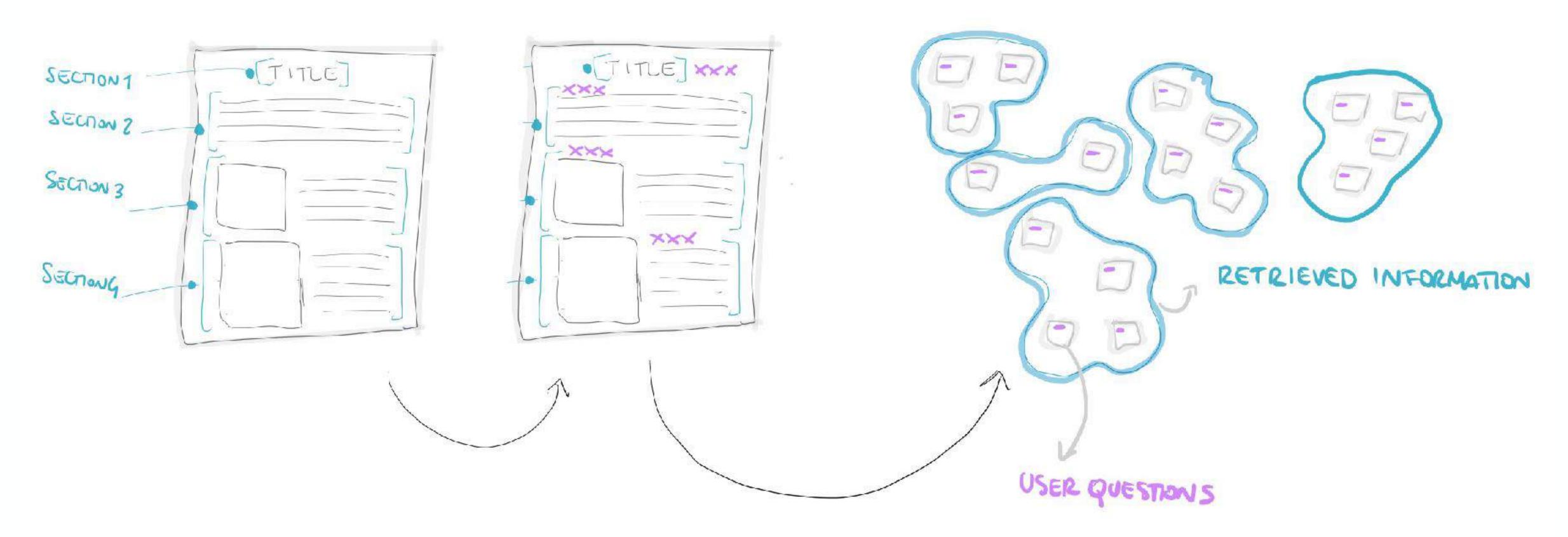
WHY?



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el - Serial Number 7C-4124		ime Opened 2023, 5:54 AN	/	
Case Deta	ails			
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Tuti litukuget, b			. Horne	
🕗 Open Activ	rities (0)			Ţ
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Date: Field: User: Original Value: New Value: Date: Field: User: Original Value:	9/7/2023, Subject Pablo Elory Issue Volve Issue Maci 9/7/2023, Descriptio Pablo Elore	ga 5 EC27C hine EC27C 5:26 AM h		
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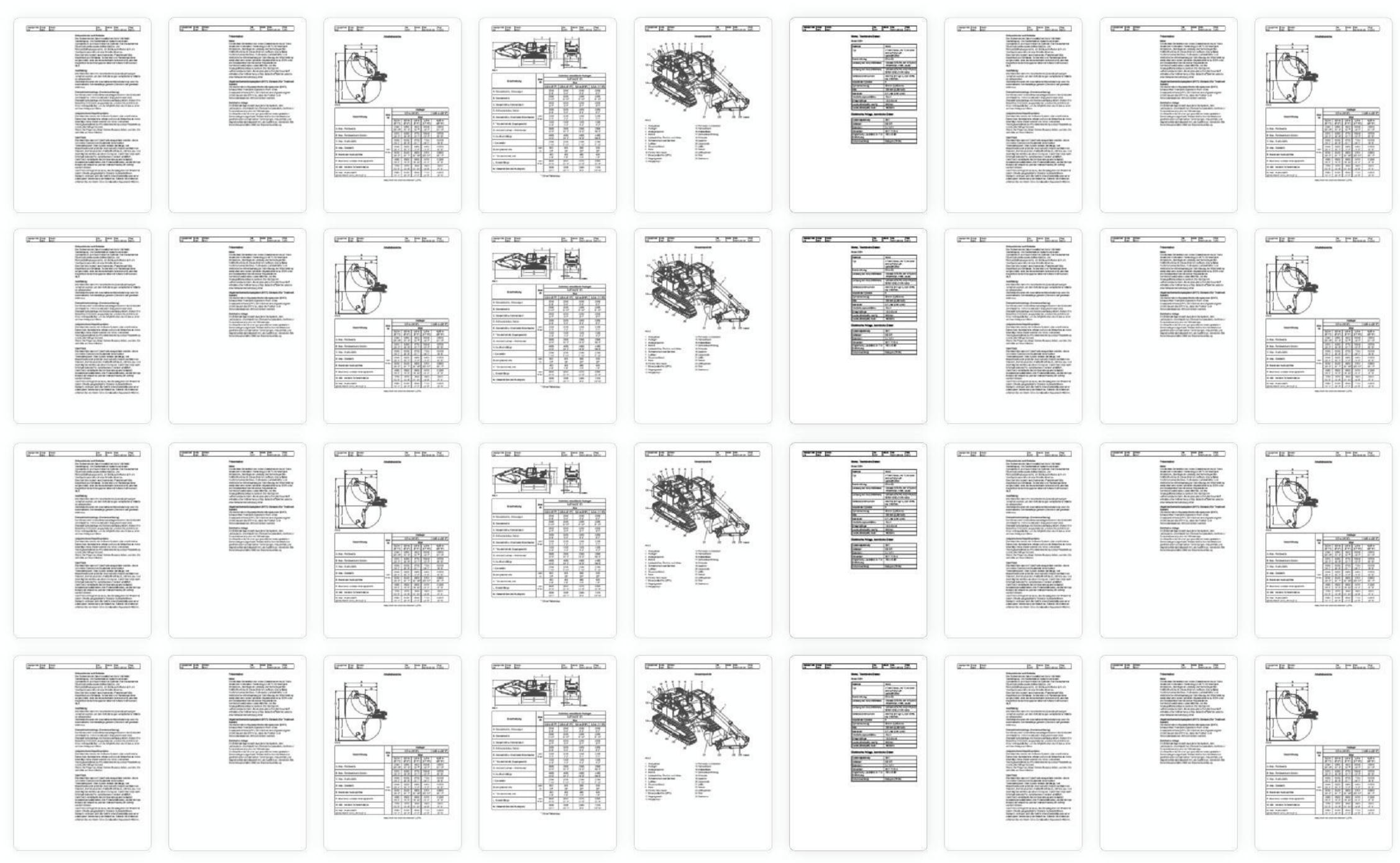


ENRICHMENT

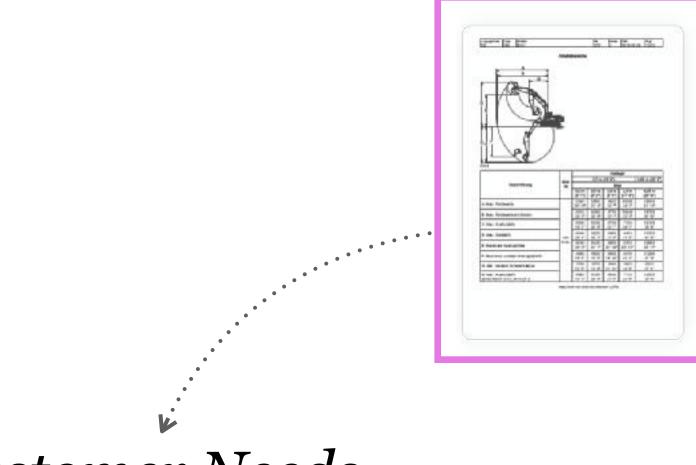




SEMANTIC SEARCH



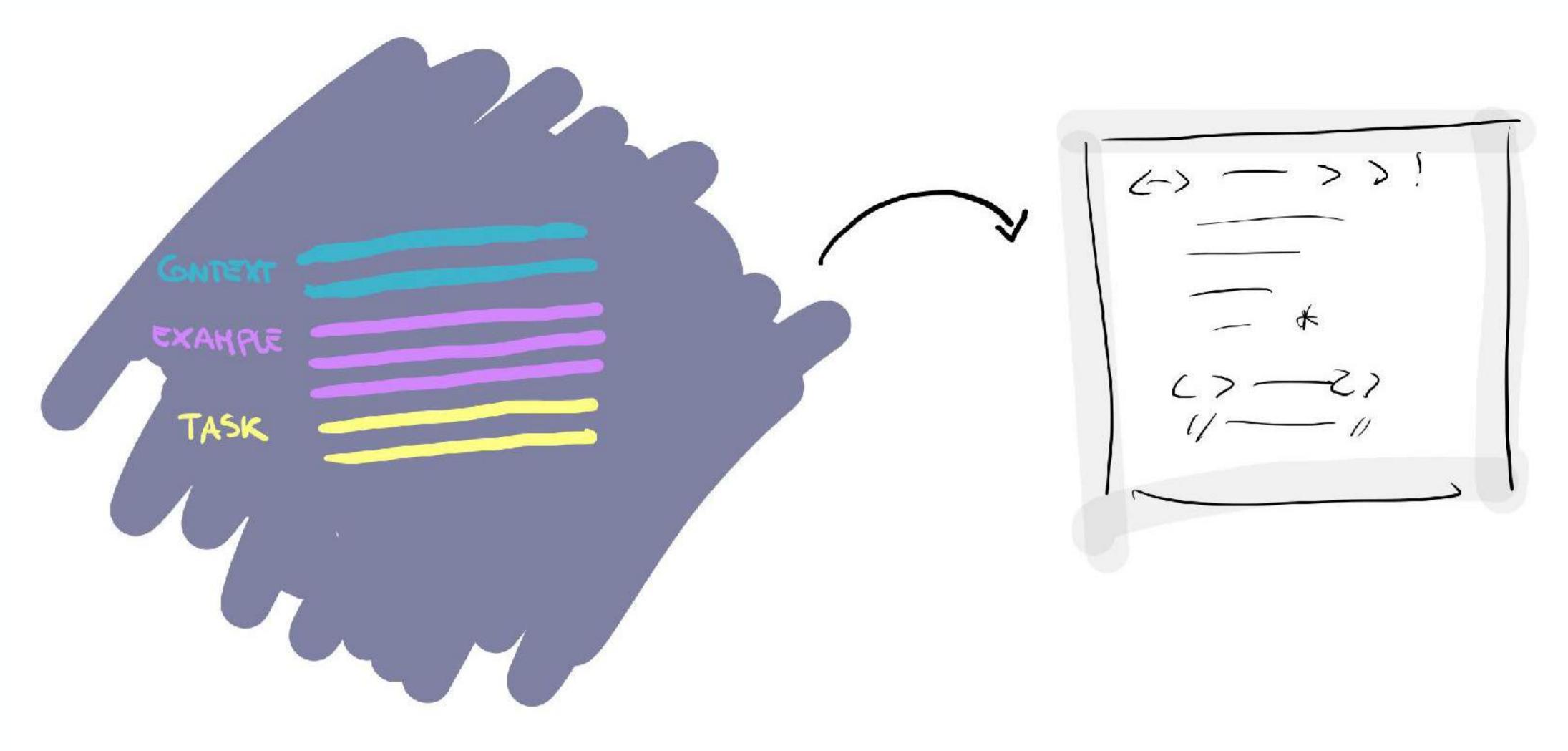




Customer Needs



USER OUTCOME



PROMPT ENGINEERING

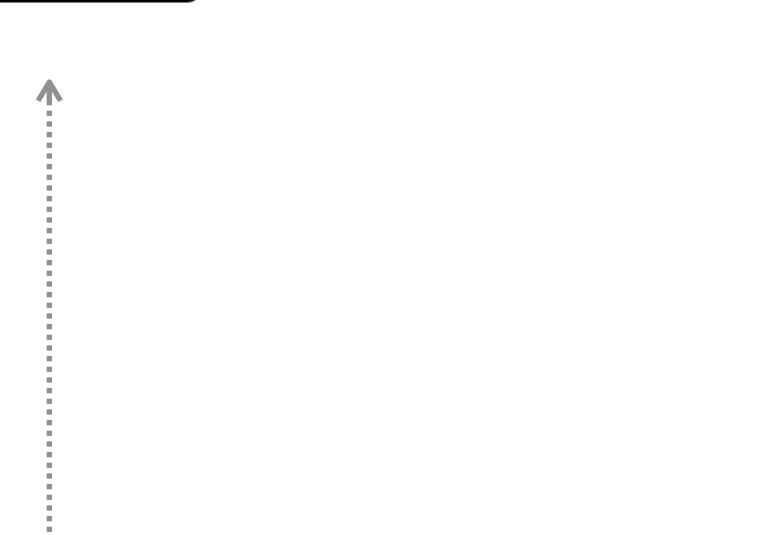
7	<pre>from stuff_prompt_template_v1;</pre>
8	
9	//{test}//
10	
11	stuff_prompt_template_v2 <u>;</u>
12	
13	<pre>//{iterate}//</pre>
14	
15	stuff_prompt_template_v3 <u>;</u>
16	
17	//{validate}//
18	
19	stuff_prompt_template_v4 <u>;</u>
20	
21	<pre>//Keep Iterating on testing//</pre>

Intent-based prompt engineering

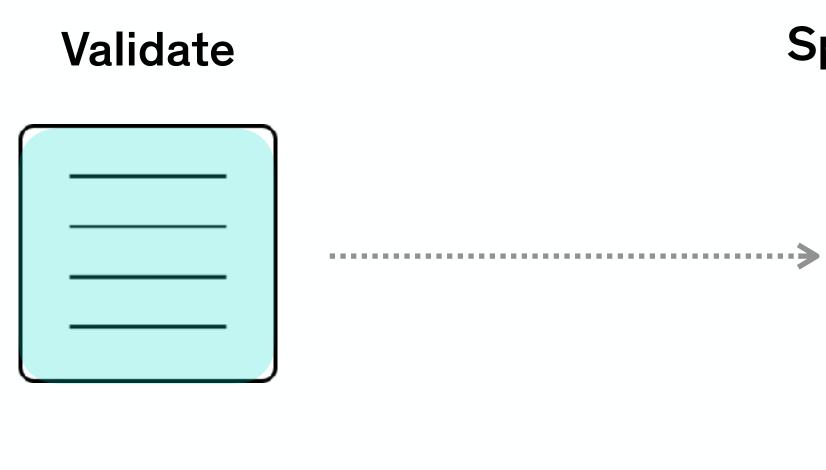
TEST YOUR HYPOTHESES (ALWAYS !!)

LLM outcome

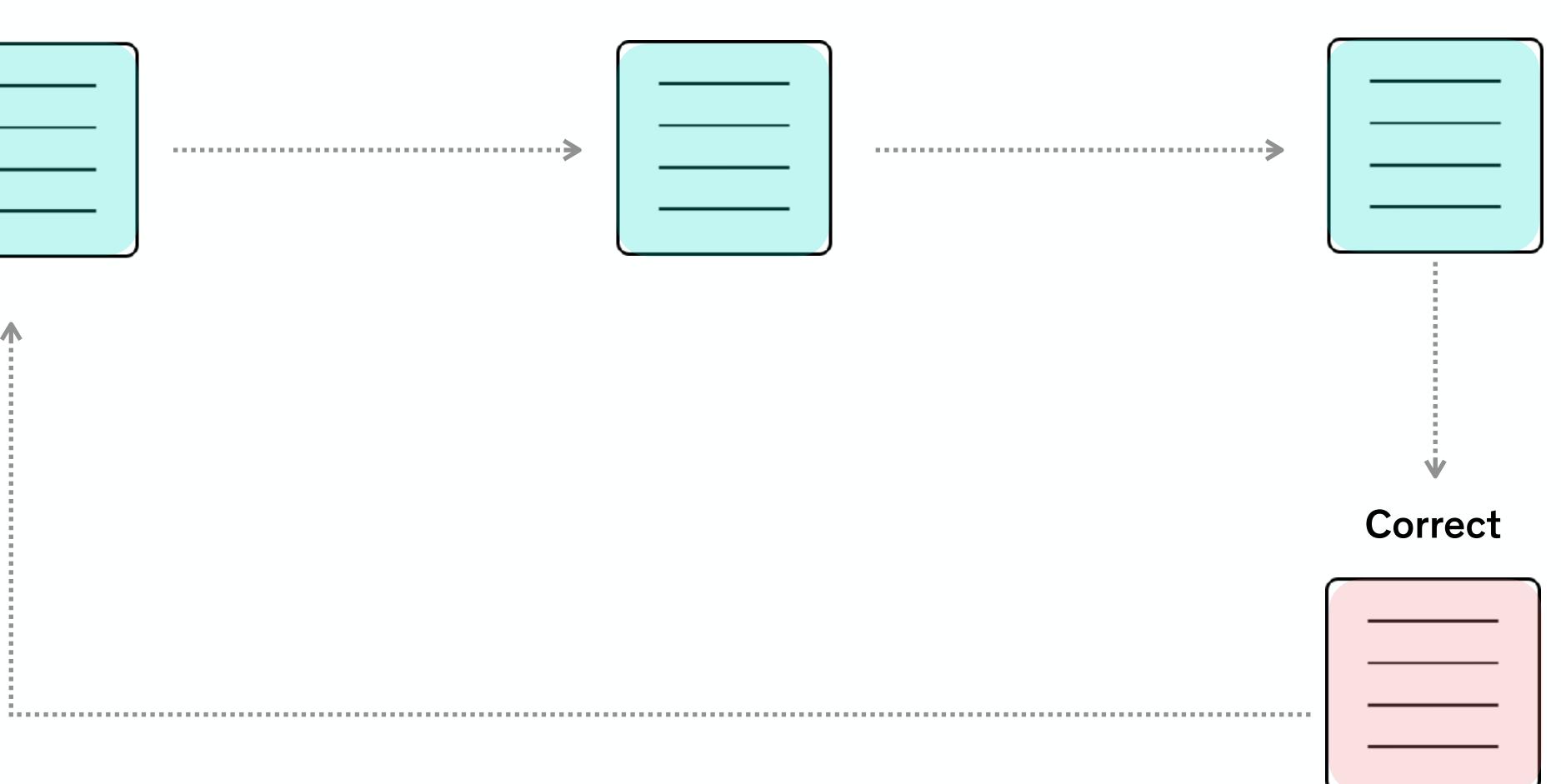




→



Spot Model Failures



ALIGN MODELS WITH USER EXPECTATIONS



Que	esti	on

For model X and serial number 12345, which issue codes the current machine can have?

Answer

Based on the provided there is no specific info

Which documents does the current machine match?

Based on the provided with Model X and Serial specific documents

What are the documents for serial number 12345?

Based on the provided context, there is this specific documents on machine failures for serial number 12345.

Improve prompt engineering

	Model weaknesses				
context, for the current machine prmation about the issue code	 Missed context Table parsing limitations 				
l context, <mark>for the current machine</mark> al number Y <mark>there are only two</mark>	 Not understanding the terminology Not able to link the text to the 				
	 Not able to link the text to the model 				

Can't find numbers due to the table parsing limitations

ALIGN MODELS WITH USER EXPECTATIONS

Means to resolves

Enhance information retrieval

Improve documents parsing

Question	Answer

For model X and serial number 12345, which issue codes the current machine can have? Based on the provided there is no specific info

Which documents does the current machine match?

Based on the provided with Model X and Serial specific documents

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l context, <mark>for the current machine</mark> al number Y <mark>there are only two</mark>	 Not understanding the terminology Not able to link the text to the 				
	 Not able to link the text to the model 				

Can't find numbers due to the table parsing limitations

Expected information

Question

Gen AI [Model Version: GPT 4]

- Bulletin: 234 CEX 48 K Version 2
- higher

Since your machine is Model EC27C with Serial number 4124, which is less than the serial number 4125 mentioned in the bulletin, this bulletin's actions for field fix are applicable to your case.

III Bulletin Link

1. 234CEX48Kv2_GB.pdf - Fuel cap seal improvement (1 / 2 pages)

👷 Pablo 09/20/2023, 14:04

What is the most relevant service bulletin about fuel leakage issues that applies to my case?

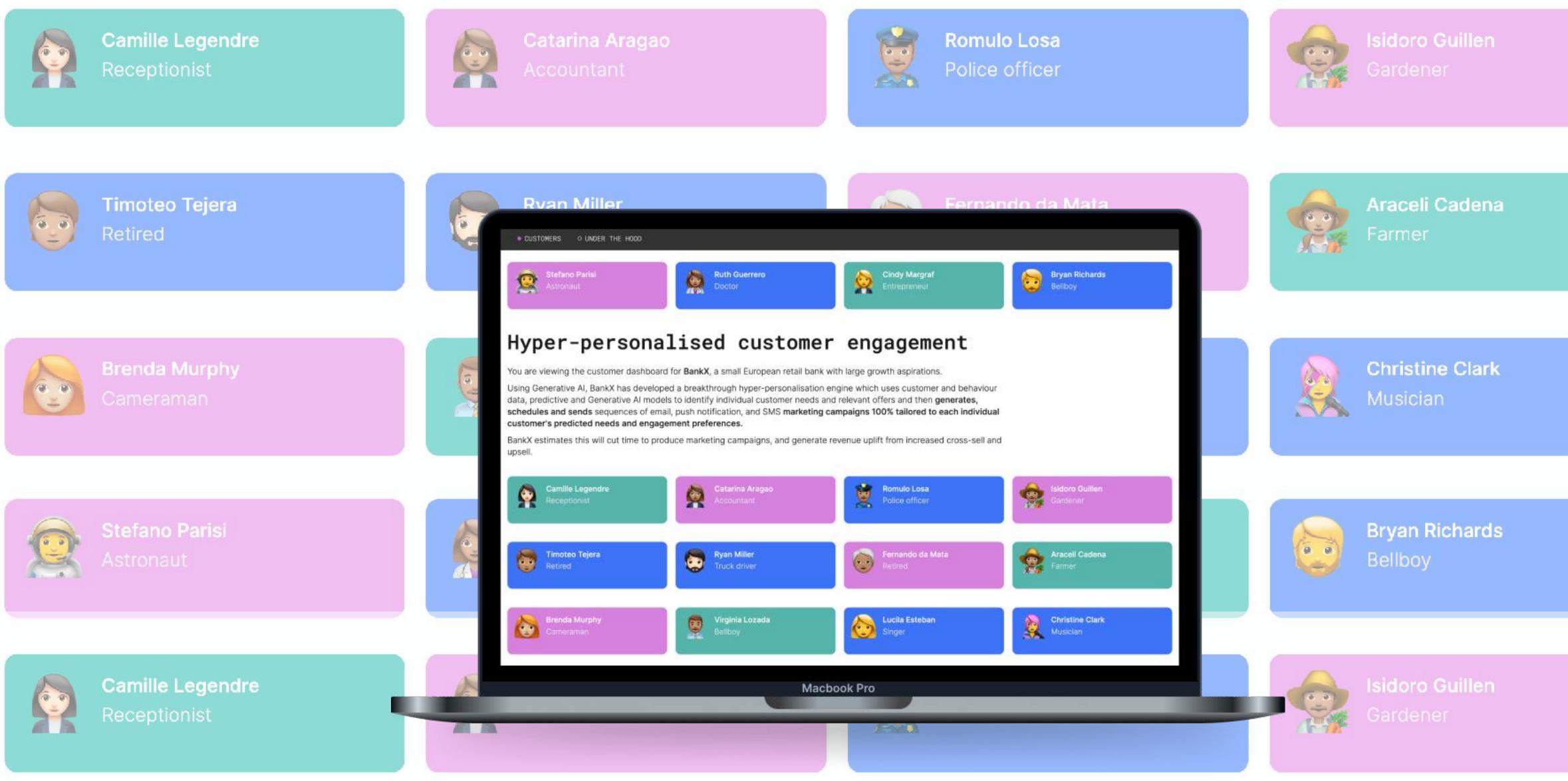
• Applicable for: actions for field fix are applicable for serial numbers less than -4125 • Improvements: model's improvements have been introduced into production from serial number -4125 and



BUILD & COMPASS FOR AI











Ryan Miller Truck driver



Araceli Cadena





Camille Legendre Receptionist

1	
E	3
1	

Timoteo Tejera

Retired



Brenda Murphy

Cameraman



Stefano Parisi

Astronaut



Camille Legendre Receptionist

Timoteo Tejera Retired

CUSTOMERS

O UNDER THE HOOD

Camille's story

BankX uses Generative AI to transform large amounts of customer data into short text summaries highlighting important information. This informs customer engagement activities and also builds the foundation for generating automated campaigns tailored to who the customer is (not just their activity with us as a bank).

OUTPUT

Camille Legendre is a middle-aged French receptionist who has been with the bank for 15.8 years. She is separated and has no children, cars, or houses. Camille has a low annual income and her top spending categories include savings, automotive products, water utilities, insurance, and delicatessen and specialty foods. Despite her limited financial resources, she prioritizes saving and manages her expenses across various categories, reflecting a cautious and practical approach to her financial behavior.



Camille's engagement journey

A CustomerOne + Generative AI hyper-personalisation model works in the background to understand and predict each customer's needs, and then generates a personalised series of communications for each customer tailored to what they need, what they value, and how they like to engage

NEXT BEST OFFERING

Product: Gold credit card



Camille Legendre Receptionist, 52 years old

CUSTOMER DETAILS

ACCOUNT NUMBER			
ACCOUNT BALANCE	£397.00		
CREDIT BALANCE	£1,203.00		
ANNUAL INCOME	£39,500.00		

Sun May 21 2023

LIKELIHOOD OF CUSTOMER INTEREST

78%



Camille's engagement journey

A CustomerOne + Generative AI hyper-personalisation model works in the background to understand and predict each customer's needs, and then generates a personalised series of communications for each customer tailored to what they need, what they value, and how they like to engage

		S
NEXT BEST OFFERING	LIKELIHOOD OF CUSTOMER	INTE
Product: Gold credit card	78%	
NATURE OF MESSAGE	SEST CHANNEL	0
Introducing new product	Push	
product		
TONE	BEST TIME	
Casual informative	Morning	
		S.

Sun May 21 2023

REST

UTPUT

BankX



Bonjour Camille! Explore the possibilities the Gold credit card may offer to those who value an elevated lifestyle and have a passion for automotive adventures. Curious? 😔



AFETY AND CONTENT MODERATION STATUS: Passed 🔽



#1 Generate

We generate messages that are responsible and fair to the customer.

#2 Anchor

We anchor engagement on customer needs and financial goals.

Keep AI In Check

How can you ensure the messages generated by AI systems align with human intents and values? By identifying issues where they occur using appropriate risk metrics to build relevant guardrails. These are the dimensions we have selected according to frameworks and techniques already available in academia and vendors.

ETHICAL AND SAFETY GUARDRAILS

Toxicity

Presence of rude or disrespectful content on a Presence of violent, hateful, or other harmful scale from 0 to 1

Harmfulness

content on a scale from 0 to 1

Bias & Stereotyping

Explicit and inappropriate mentions of a customer's age, gender, or family status on a scale from 0 to 1

Building Guardrails

Switch the guardrails on and off to see how the message and the metrics scoring its quality and safety change.



💥 Good evening, Theresa! We offer a Golden Credit Card perfect for those who have a flair for luxury and wouldn't settle for less! = Don't miss out on this opportunity to elevate your shopping experience and make every evening sparkle. Click [here] to learn more about how the Golden Credit Card can make life more rewarding! 💥

SAFETY AND CONTENT MODERATION STATUS: Passed

SAFETY AND CONTENT MODERATION

0.0 Toxicity

#3 Engineer

We engineer on flexible technical foundations

#4 Build

We build with value and scalability at the core

CONTENT AND QUALITY MODERATION

Regulatory Risk

Low/Medium/High risk ratings for the presence of financial advice

Hallucinations

Index from 0 to 1 showing presence of content contradicting or not provided in the details about the customer and the banking product



0.0 Harmfulness

0.0 Bias & Stereotyping

low Regulatory Risk

0.0 Hallucinations

#1 Generate

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How can you ensure the messages generated by AI systems align with human intents and values? By identifying issues where they occur using appropriate risk metrics to build relevant guardrails. These are the dimensions we have selected according to frameworks and techniques already available in academia and vendors.

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Switch the guardrails on and off to see how the message and the metrics scoring its quality and safety change.



😤 Good evening, lovely lady! We have a Golden Credit Card perfect just for you! 🛲 With this exclusive card, you can enjoy amazing rewards such as <mark>5% cash back</mark> on all your purchases in luxury stores. Don't miss out on this opportunity to elevate your shopping experience and make every evening sparkle. 材 Apply now and let the Golden Credit Card bring more value to your life! 🌟

SAFETY AND CONTENT MODERATION STATUS: Not Passed

SAFETY AND CONTENT MODERATION

0.1 Toxicity

#3 Engineer

We engineer on flexible technical foundations

#4 Build

We build with value and scalability at the core

CONTENT AND QUALITY MODERATION

Regulatory Risk

Low/Medium/High risk ratings for the presence of financial advice

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Index from 0 to 1 showing presence of content contradicting or not provided in the details about the customer and the banking product

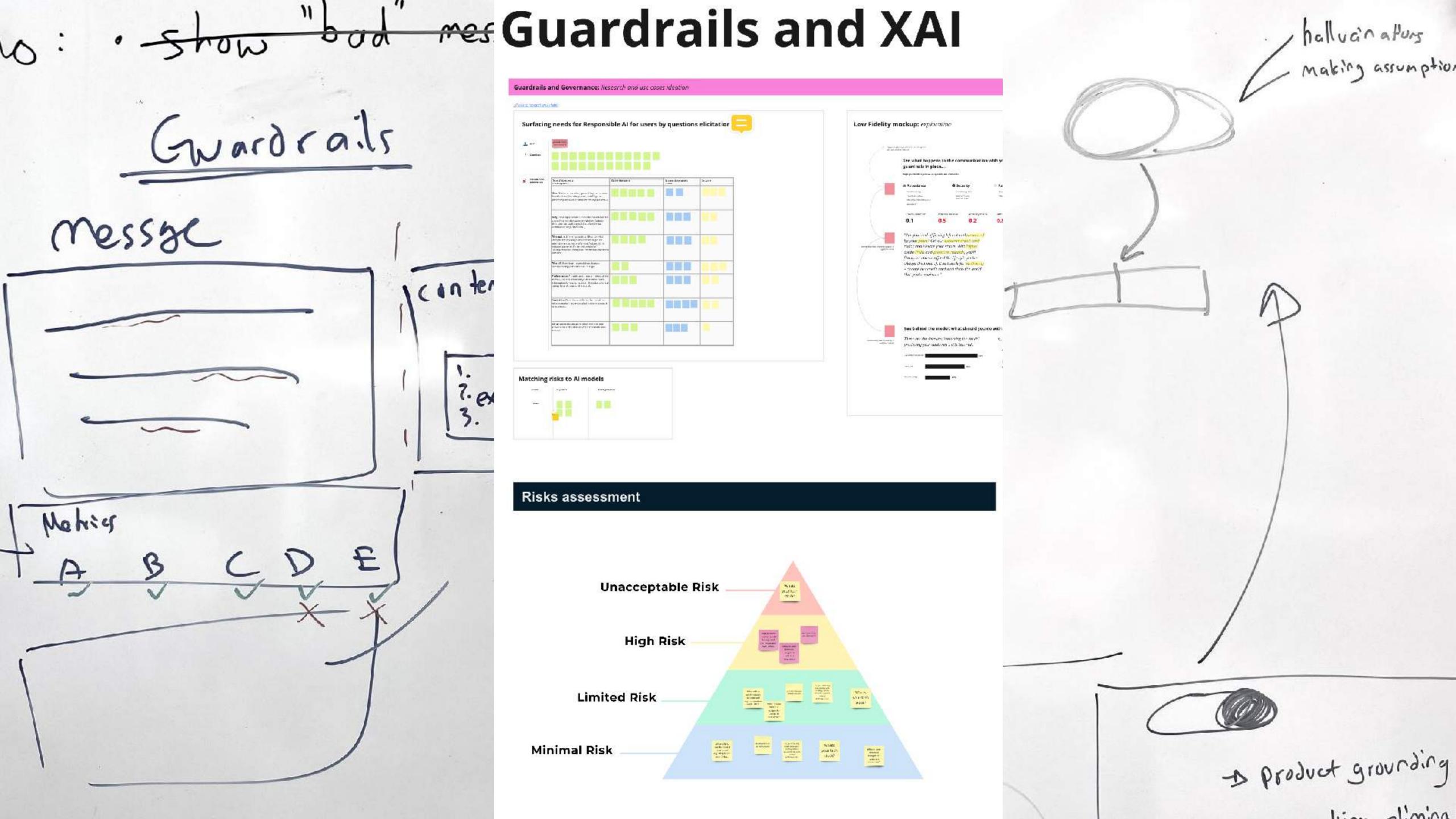


0.2 Harmfulness

0.6 Bias & Stereotyping

high **Regulatory Risk**

0.9 Hallucinations



			Benchmarks							
Risk category	Effects	Outcome	Regulatory risk	Toxicity	Harmfulness	Stereotyping	Hallucinatio ns	Fairness	Accuracy	Bias
Data privacy	IP infringement by acreping protected images or content Misalignment with Responsible Al principles emerging in regulation and industry best practices	 Date privacy infringement evoldance Avoid fees reputation damage 	••••	••00	••00	••00	0000	•000	0000	•000
Allocation harm	Creating 'explainability gap' where the output arrived at without understanding how the inputs led to the results Making undesired inferences and 'leap of legic' a g. As someone who loves bekenes, you with love our mortgage options	 avoid risking creating barriers for customers to access best financial products or offerings risks of missing opportunities with customers that would be perfect for some offerings but are misallocated by the model decrease customer loyelty because her doesn't receive relevant offerings recommendations from the bank decrease customer engagement 	••00	•000	•000			•000	••00	•000
Discrimination	Not conforming to cultural norms and expectations of the customer's region and demographic Mentioning of tabu topics Stereolyping based on customer characteristics e.g. As a busy doctor and a loving mom	 Reputation damage Avoid statistical or historical biases that could create barriers for customer access financial services Social impact and stay aligned to the bank's social and responsibility efforts 	•000		••••	••••	•000	•••0	••00	•••0
Representation harm	Not conforming to cultural norms and expectations of the customer's region and demographic Stereolyping based on customer characteristics e.g. As a busy doctor and a loving mom	 avoid reputation damadge and decreasing customers interaction or missing opportunity because of perpetuation of stereotypes and power dynamics that reinforces discrimination and opportunities segregation 	•000	•000	•000	•000	•000	••00	•••0	•••0
Drift	Generating factually incorrect content (so- called hallucinations') Making undesired inferences and 'leaps of logic' e.g. As someons who loves bakeries, you will love our mortgage options	 risk of having a model that doesn't adept to changes in customers spending risk of missing new opportunities by addressing customer needs as they thange risks of loosing personalization risk of having wrong or old or ineffective matches between customers and offerings 						•000	•••0	0000
Toxicity	Using inappropriate or non- conforming tone, lenguage, wording	 reputation damage by creating messages that can spread hete, racism, discrimination and are toxic loosing clients decrease customer loyalty bad social impact 	•000			•••0	•000	••••	•••0	
Misinformation	Inaccurate summaries or citations of legal and/or regulatory requirements Openerating factually incorrect content (so-called 'hallucinations') Revealing 'inner workings' of the model (e.g. unwarted placeholders, prompt instructions, internal data) e.g. Follow instructions et [Benk Name) to get started	 prevent mistakes prevent giving customers factually wrong information or data prevent hallucination prevent decrease customer loyelly prevent decrease customer interactions/engagement brand reputation 	••00	•000	•000	000		••••		•000

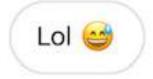


lovely lady!

26 May, 16:33



28 May, 21:05

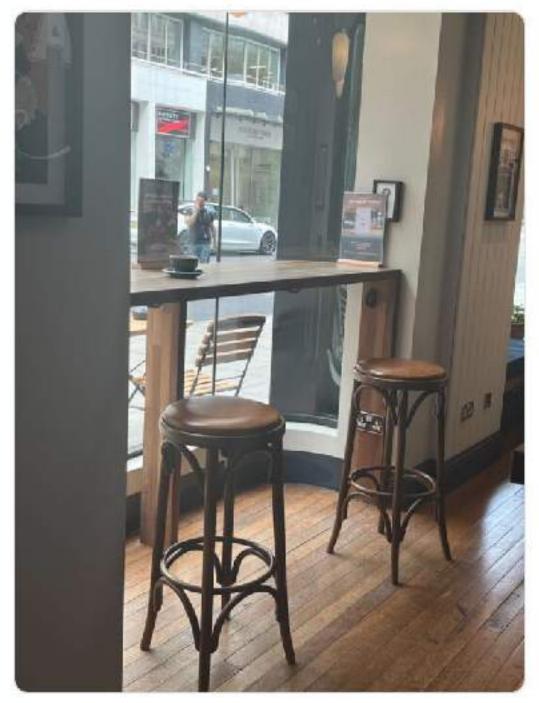


Great energy at the stand with this lovely lady!

IMG_4086 🔻



where the HyPe started... haven't been here since then 😅 IMG_0395 💌





Al Strategy and Governance

Data Science

Software, Data & Cloud Engineering



TEY BANNERMAN Marketing Content Director Designing content guidelines



MATTIA BONI SFORZA Data Science Manager Retail banking domain expertise



THABO MPHUTHI

Software & Cloud Engineer Development of integrations with core systems



MARA POMETTI UX/UI Specialist Customer journey designing



VIKTORIIA OLIINYK Prompt Engineer Context and chain of thought design



VAIBHAV SINHA Data Engineer Feature store integration



GIOVANNA CAVALI

Data Scientist NBA engine predictive modelling



ROXANA PAMFIL

Safety Engineer Content moderation and guardrail implementation



EVANGELOS THEODORIDIS

Big Data Engineer Scalable tech solution implementation



MARGAUX PENWARDEN

XAI & Fairness Modeller Ensuring fair model outputs



IOAN STANCULESCU Data Science Manager Wealth management domain expertise



JONATHAN HAMSHAW Software & Cloud Engineer Development of live feedback



JULIETTE QUERSIN **Digital Designer** Design of user interfaces



DAVID ROSCHEWITZ Machine Learning Engineer Scaling of message generation

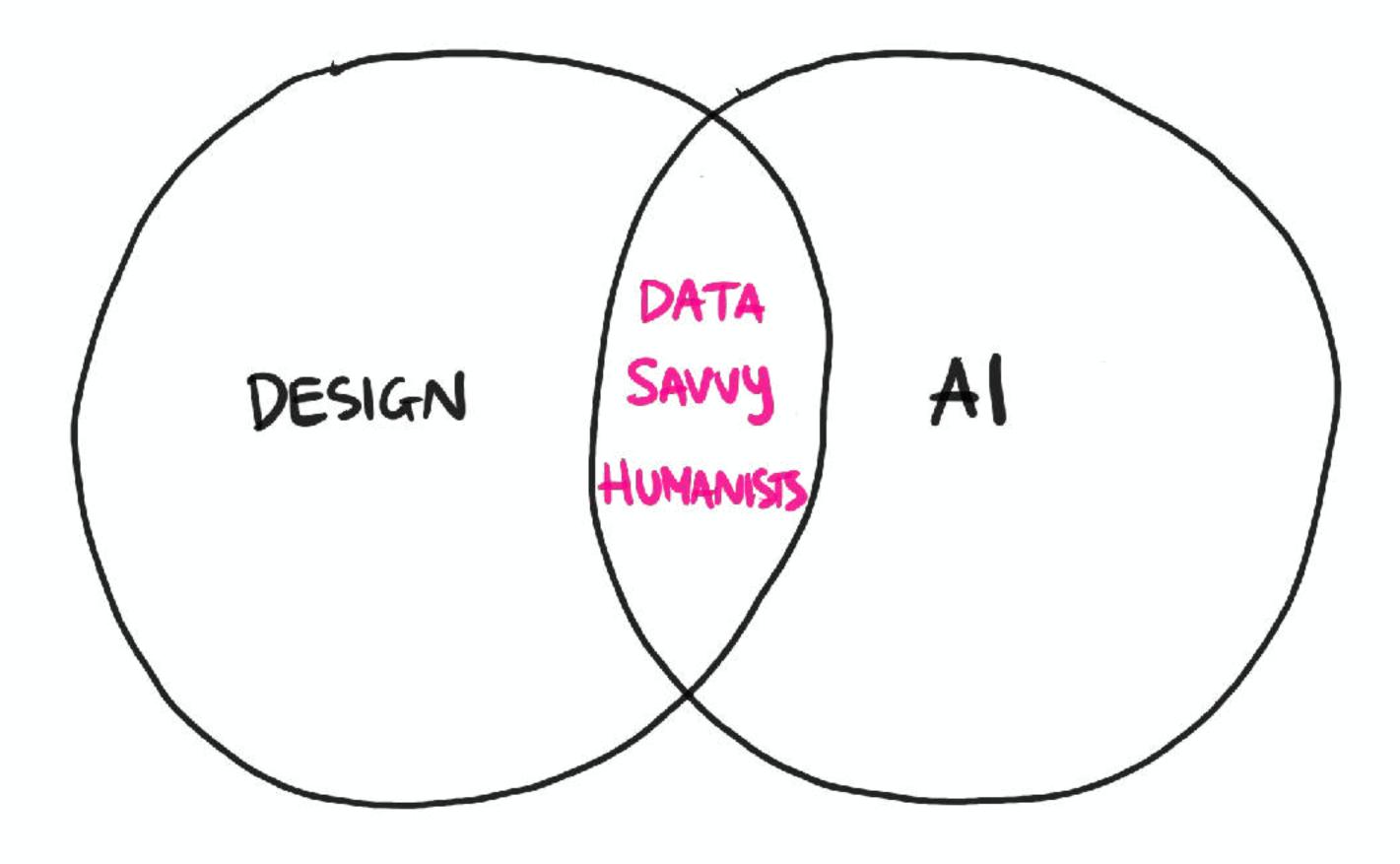


MATHEUS SAMPAIO Deployment Engineer MLOps & monitoring

...and many others



A HUMANISTIC OVERTURE TO AL



Capture human stories in algorithms

stuff_prompt_template_v3 = """You are an ad technical service adviser. You focus on as: Use the following pieces of context to ansu you don't know, don't try to make up an and The context block starts with START_CONTEX START_CONTEXT>>> {setup} {context} <<<END_CONTEXT



We humanize what is going on in the world and in ourselves only by speaking of it, and in the course of speaking of it we learn to be <u>human</u>.

Hannah Arendt





McKinsey & Company