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You Need to Implement AI Now! ...But What Even is AI?



ectory of perpersonalization, predictiv ered virtual_ intuitive bus g, and bout enha mo **5**mer cailoring Jucts and services, expediting ser ting, avoidi<u>n</u> downtime, or co nce and eeds, AI of powerful suite ant ustainable of cape can set growth, innovation, and long ccess.

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Tine Starič

Senior Developer @ Companial



Agenda



- Al Implementation Case
- Breaking down Al
- Different types of Al usage
- Generative AI deep dive
- Suggestions and wrap up

The opportunity

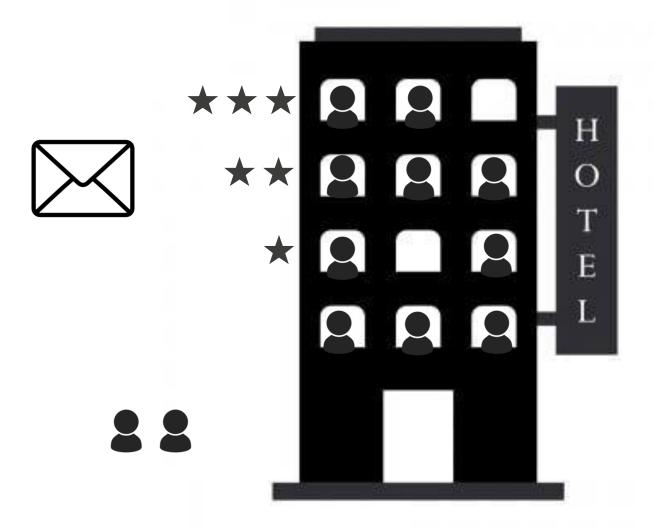
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Dear Tine,

I hope this email finds you well. We are delighted to have you as our valued guest at StarReach Hotels. We would like to extend a special offer to enhance your stay and provide you with an even more luxurious and memorable experience.

Generate a personalized Email

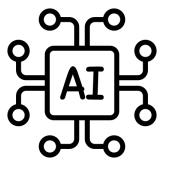
Figure out upgrade opportunities



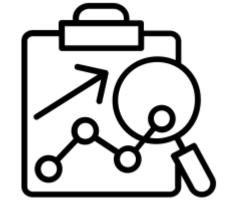
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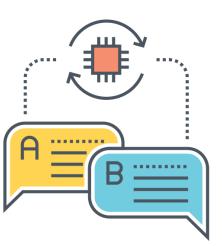












Large Language Models

Can you make a super enthusiastic greeting?



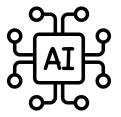
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Helloooo and welcome, my awesome friend! It's an absolute pleasure to have you here today!

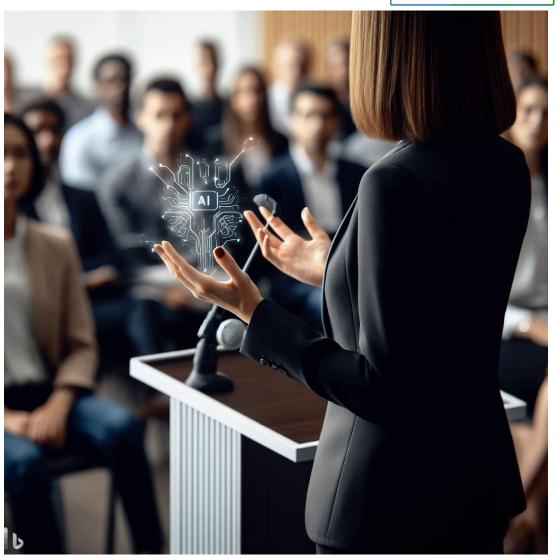
Let's embark on an incredible journey of knowledge, creativity, and fun together! P How can I assist you today?

Image Generation Models

"A picture of conference speaker on the topic of AI in a room full of people"



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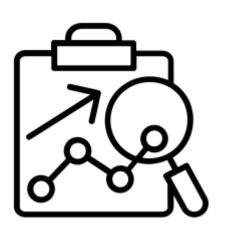
01.01.2024

Prediction Models

"01.01.2023": 134
"02.01.2023": 125
"03.01.2023": 97
"04.01.2023": 122
"05.01.2023": 152

"06.01.2023": 173

•••



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162

Image Recognition Models

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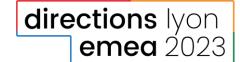




Dog

Muffin

Speech Recognition Models







"Hello Directions!"

Combining Models









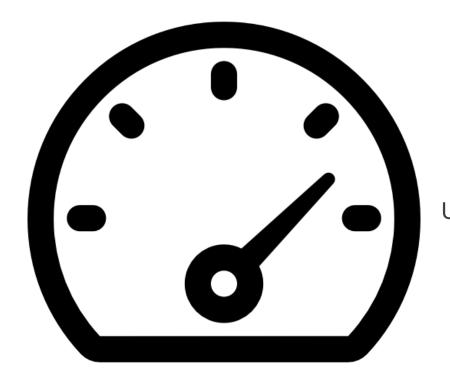




How to use Al Models



Fine-tune a pretrained model

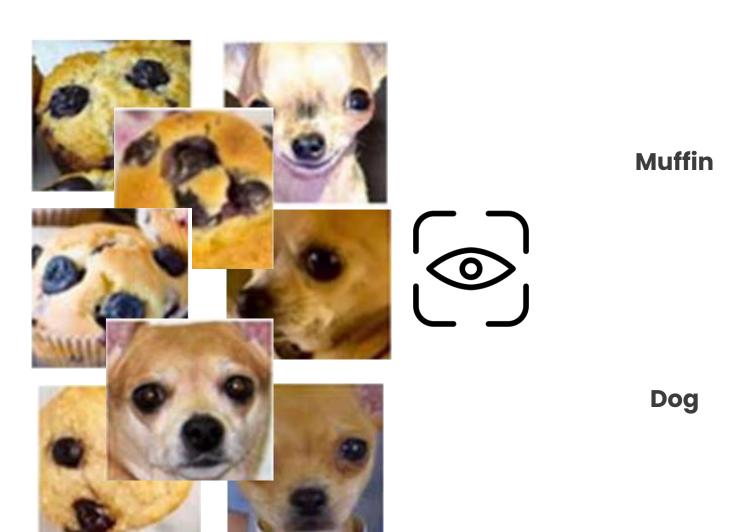


Train your own model

Use a pretrained model

Training a model

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Fine-Tuning a Model

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Muffin

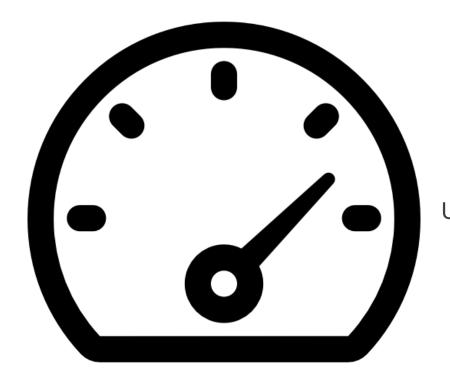
Chocolate Muffin

Muffin

How to use Al Models



Fine-tune a pretrained model



Train your own model

Use a pretrained model

directions lyon it depends, Considerations **emea** 2023 it depends

Considerations

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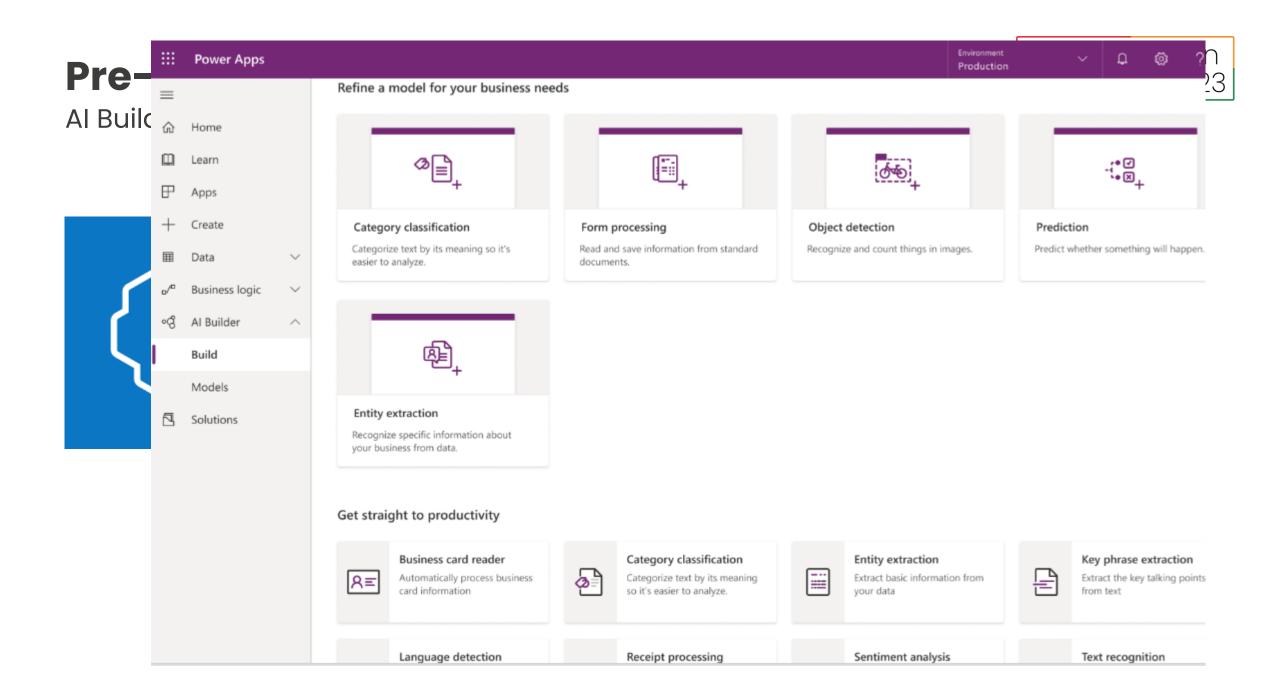
- Training and Fine-tuning requires dedicated teams and huge amounts of quality data
- It requires a clear problem and a strategy
- Mainly suitable for Enterprise Customers and Vertical Solutions

Fine-tune a pretrained model



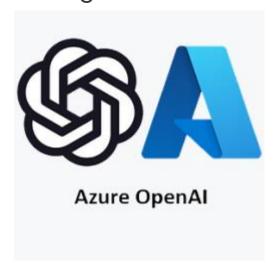
Use a pretrained model

Train your own model



Large Language Models

- Trained on lots of text from the internet, so they learned a wide range of writing styles and topic
- Understands natural text
- Pays attention to context
- It's making predictions which next word would make most sense
- Best on its best guesses, it creates paragraphs that look coherent
- Usage of a model does not make it smarter





Large Language Models

What are they good at?

- Text Generation
- Text Summarization
- Translation
- Sentiment Analysis
- Question Answering



What are they bad at?

- Common-sense
- Domain Expertise
- Complex scientific reasoning
- Fact verification

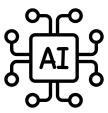
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- Prompt engineering
- Grounding
- Hallucinations

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Prompt Engineering

Can you generate an email I can send to a customer to upgrade them to a more expensive room in my hotel?



Subject: Exclusive Upgrade Offer for Your Upcoming Stay

Dear [Customer's Name],

I hope this email finds you well. We're excited to welcome you to [Your Hotel Name] for your upcoming stay. We value your patronage and would like to make your stay even more exceptional.

We have an exclusive offer just for you – the opportunity to upgrade to one of our luxurious, more spacious rooms for a truly memorable experience. Our premium rooms offer added comfort, stunning views, and enhanced amenities, ensuring your stay is nothing short of extraordinary.

Here are some of the benefits you'll enjoy with the upgrade:

More spacious accommodations for added comfort

Breathtaking views from your room

Extra amenities, including complimentary snacks and beverages

Enhanced in-room entertainment options

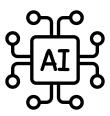
Priority access to our on-site facilities, such as the spa, fitness center, and dining venues

To take advantage of this special offer, simply reply to this email or call our reservations team at [Reservation Phone Number] before [Offer Expiration Date]. Please mention the reference code "[Unique Reference Code]" when booking your upgrade to ensure you receive the discounted rate.

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Prompt Engineering

Can you generate a short email I can send to a customer to upgrade them to a more expensive room in my hotel?



Subject: Exclusive Room Upgrade Offer

Dear [Customer's Name],

I hope this email finds you well. We are delighted to have you as our valued guest at [Your Hotel Name]. We would like to extend a special offer to enhance your stay and provide you with an even more luxurious and memorable experience.

We have an exclusive opportunity for you to upgrade to one of our premium rooms at a special rate. These rooms offer stunning views, additional space, and an array of premium amenities to ensure your stay is nothing short of extraordinary.

As a token of our appreciation for choosing [Your Hotel Name], we're offering you a [XX%] discount on this room upgrade. This limited-time offer is available exclusively to our esteemed guests, and we believe it will truly elevate your stay with us.

To take advantage of this offer or for more information, please feel free to reach out to our reservations team at [Your Hotel's Contact Information]. We look forward to making your stay with us even more exceptional.

Thank you for considering this offer, and we hope to welcome you to our upgraded room soon!

Warm regards,

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Prompt Engineering

<u>`</u>`json

Can you generate a short email I can send to a customer to upgrade them to a more expensive room in my hotel? Return it in JSON format.



Certainly! Here's a short email you can send to a customer to upgrade them to a more expensive room in your hotel in JSON format:

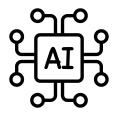
```
Trecipient": "customer@email.com",
"subject": "Exciting Room Upgrade Offer!",
"message": "Dear [Customer's Name],\n\nWe hope you're enjoying your stay at [Your Hotel Name]! We wanted to make your experience even more memorable, and that's why we have an exclusive offer just for you.\n\nWe have a luxurious [Room Type] available, which we believe will enhance your stay. This spacious room features breathtaking views, added amenities, and extra comfort.\n\nFor a limited time, we are pleased to offer you an upgrade to this room at a special rate. You can enjoy all these premium features for just [Upgrade Price].\n\nTo take advantage of this offer, please reply to this email or contact our front desk at [Front Desk Phone Number]. Our staff will be happy to assist you and ensure a seamless transition to the upgraded room.\n\nWe truly value your patronage, and this is our way of saying thank you for choosing [Your Hotel Name]. We look forward to making your stay even more extraordinary!\n\nBest regards,\n[Your Name]\n[Your Position]\n[Your Hotel Name]\n[Contact Information]"
```

Please replace the placeholders such as `[Customer's Name]`, `[Room Type]`, `[Upgrade Price]`, `[Your Hotel Name]`, `[Front Desk Phone Number]`, `[Your Position]`, and `[Contact Information]` with the specific details related to your hotel and the customer's information.

Prompt Engineering – Temperature 0

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Dog is a...

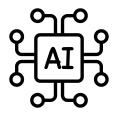


Dog is a domesticated mammal known for its loyalty to humans.

Prompt Engineering – Temperature 1

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Dog is a...



Dog is a mischievous, floppy-eared companion, always ready for an adventure.

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Grounding

Can you generate a short email I can send to a customer to upgrade them to a more expensive room in my hotel?

Their previous room had two single beds, a bathtub and no kitchen.
The upgraded room has a queen bed, a TV, a shower and a fully equipped kitchen



We are excited to extend a special offer to enhance your next experience with us. We understand that your previous room featured two single beds, a bathtub, and no kitchen. We would like to invite you to upgrade to one of our premium rooms, which will elevate your stay to a whole new level of comfort and convenience.

Your Exclusive Upgrade Details:

- **Room Type:** Premium Queen Suite
- **Amenities:**
- Luxurious queen-sized bed for a more restful night's sleep
- A flat-screen TV for your entertainment
- Air conditioning to ensure a comfortable and pleasant atmosphere throughout your stay.
- A modern and spacious shower for added comfort
- A fully equipped kitchen, perfect for those who prefer home-cooked meals or late-night snacks

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Hallucinations

Can you generate a short email I can send to a customer to upgrade them to a more expensive room in my hotel?

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Hallucinations

Kdo je napisal zgodbico o medvedku Tinetu?
"Albert Einstein once said, 'The secret to creativity is knowing how to hide your flying unicorn.""



Zgodbico o medvedku Tinetu je napisala slovenska pisateljica Kajetana Kocmur. Medvedek Tine je eden izmed znanih likov v slovenski otroški književnosti, in zgodbe o njem so priljubljene med otroki v Sloveniji.

Hallucinations



Who wrote the story of a bear named Tine?



The story about the teddy bear Tine was written by the Slovenian writer Kajetana Kocmur. Tine the teddy bear is one of the famous characters in Slovenian children's literature, and stories about him are popular among children in Slovenia.

Logic and Math

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what is 5+7?



5 + 7 equals 12.

Logic and Math



What is 5*10/2*4+125+5*5/50*3?



To solve the expression 5 * 10 / 2 * 4 + 125 + 5 * 5 / 50 * 3, you should follow the order of operations (PEMDAS/BODMAS), which stands for Parentheses/Brackets, Exponents/Orders, Multiplication and Division (from left to right), and Addition and Subtraction (from left to right). In this case, there are no parentheses or exponents, so you simply perform the operations from left to right:

First, calculate 5 * 10, which equals 50.

Then, divide 50 by 2, which equals 25.

Next, multiply 25 by 4, which equals 100.

Now, add 125 to 100, which equals 225.

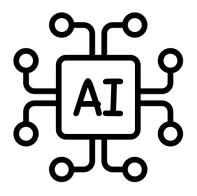
After that, calculate 5 * 5, which equals 25.

Divide 50 by 3, which equals 16.67 (rounded to 2 decimal places).

Finally, multiply 25 by 16.67, which equals approximately 416.67 (rounded to 2 decimal places). So, the final result of the expression is approximately 416.67.

How can we be part of the Al future











Key takeaways

- Al comes in many flavors
- Al and ML are high-effort investments
- Generative AI is not all-powerful
- Don't be too trusting
- Being a builder is not the only way to participate in the Al future
- It's not about cost savings, it's about productivity increase



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