PYTHON GUI APPS CON 2023
AI Inside Out

Using LLMs to power up your development

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AI Inside Out

Using LLMs to power up your development

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Embarcadero MVP

Agenda

- About LLMs

- LLMs helping us code
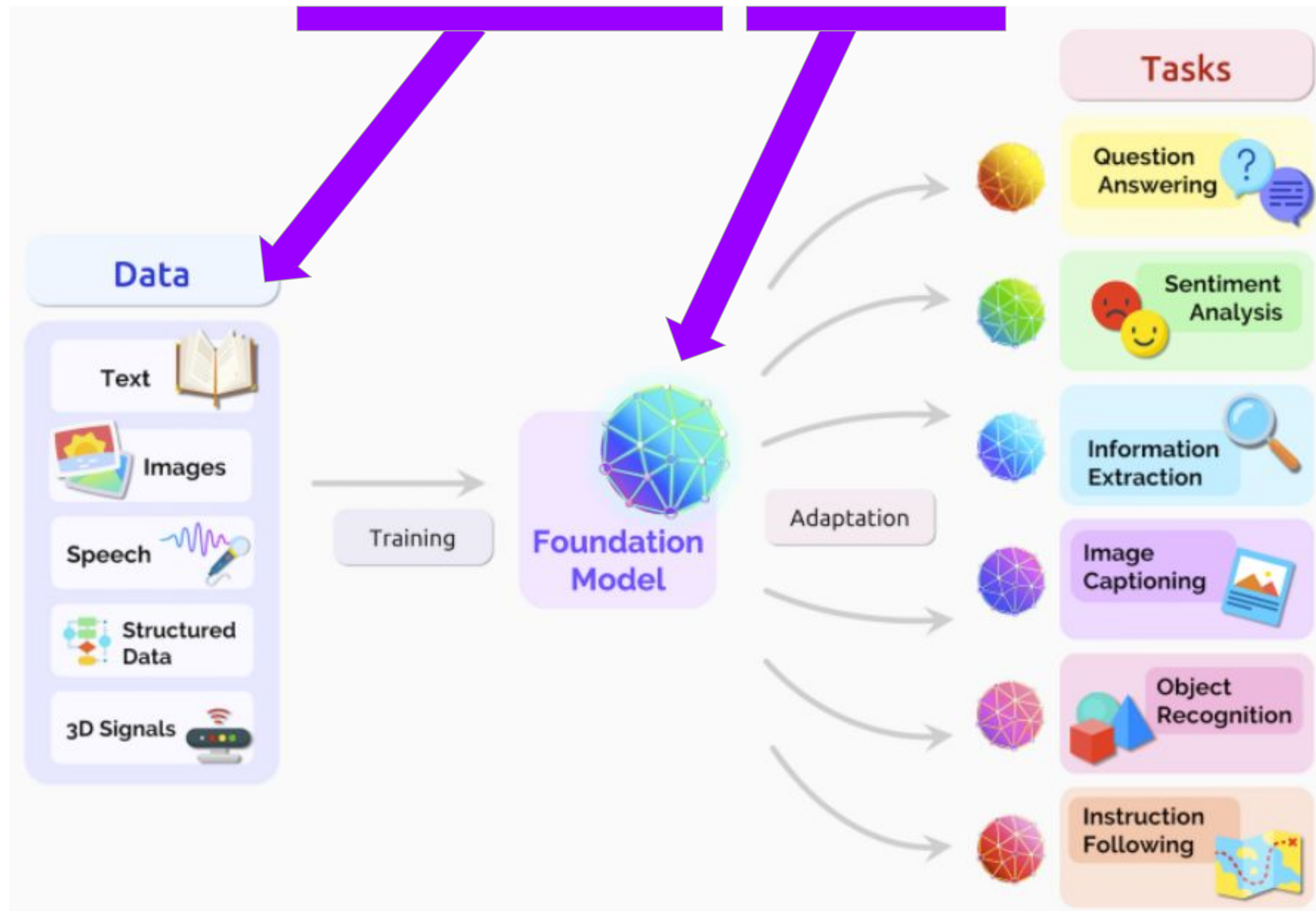
- LLMs as a tool in our applications

About Large Language Models (LLM)

Since ChatGPT release in Nov/22,
LLMs have receiving a lot of attention

Mostly because LLMs, like ChatGPT can help us in many tasks
And now that they arrived many things already have changed…

About Large Language Models (LLM)

https://arxiv.org/pdf/2108.07258.pdf

About Large Language Models (LLM)

What can they do?

- Give detailed explanations on complex and clarified aspects
- Solve mathematical problems step by step
- Write code
- Write texts with different styles
- Compose musical lyrics
- Explain mathematical theorems
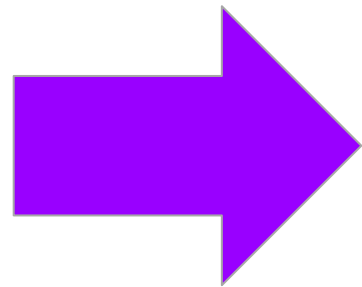
How can we code with LLMs?!
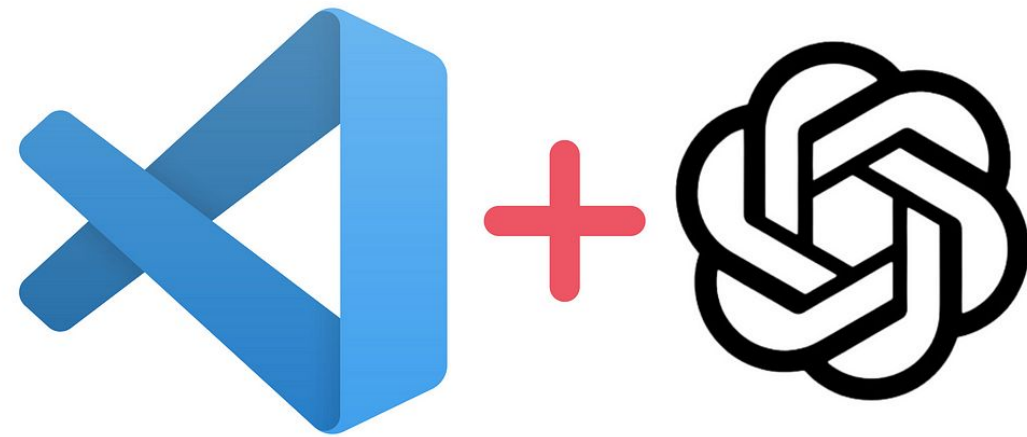
LLMs helping us code

LLM Generating code

And we now have tools that speed up codding like:
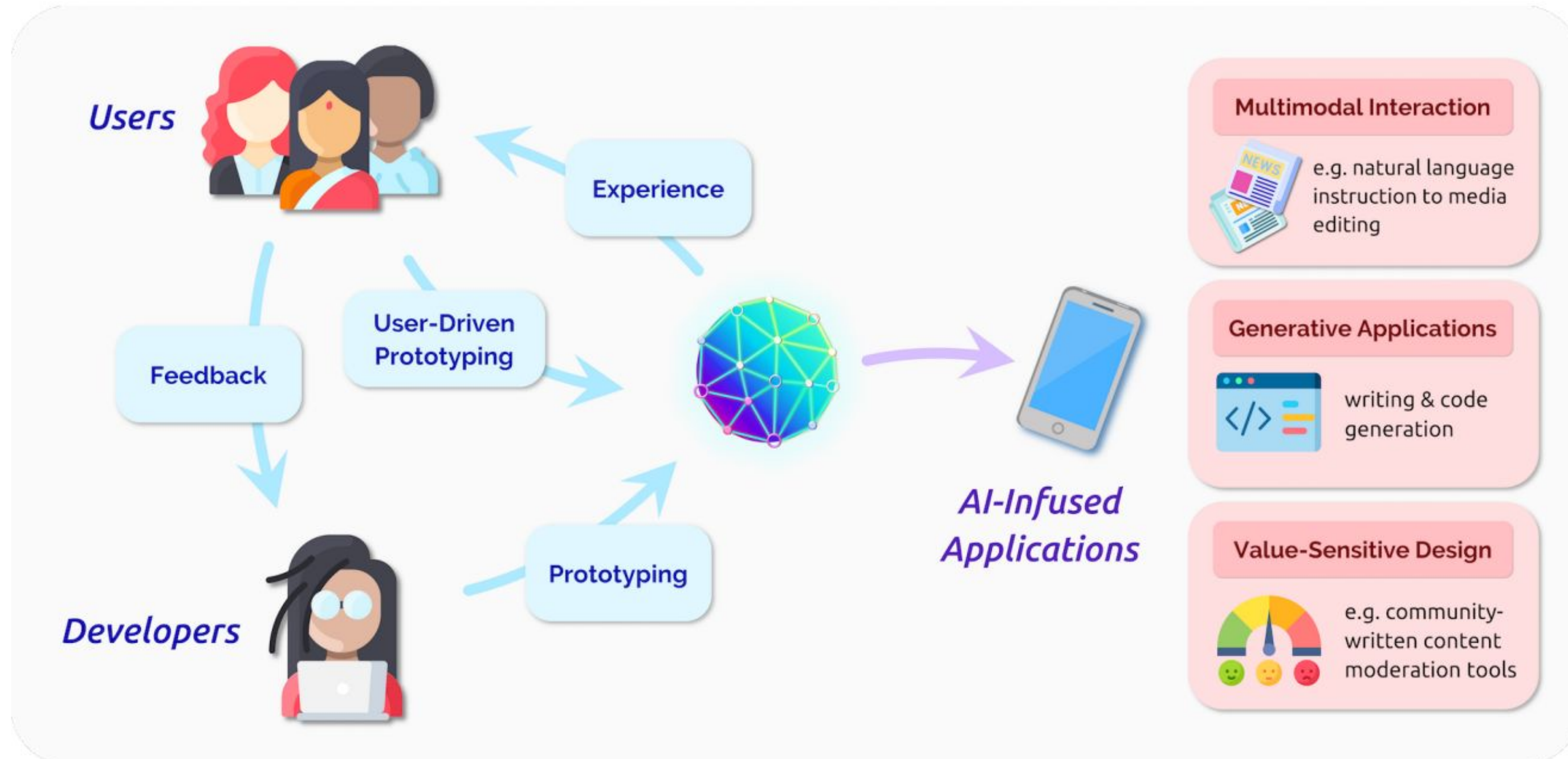
LLMs helping us code

VS Code + ChatGPT

LLMs helping us code - options

LLMs helping us code - options

Captain Stack

Houston, we got code suggestions

LLMs as a tool in our applications

https://arxiv.org/pdf/2108.07258.pdf

LLMs as a tool in our applications

How can we develop an App in Python?

LLMs as a tool in our applications

Python for Delphi

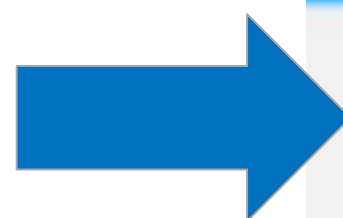https://github.com/pyscripter/python4delphi/

LLMs helping us code - Delphi

ChatGPTWizard from Ali Dehbansiahkarbon

https://github.com/AliDehbansiahkarbon/ChatGPTWizard
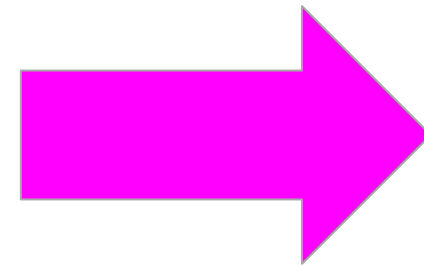
Conclusion

Three types of Artificial Intelligence

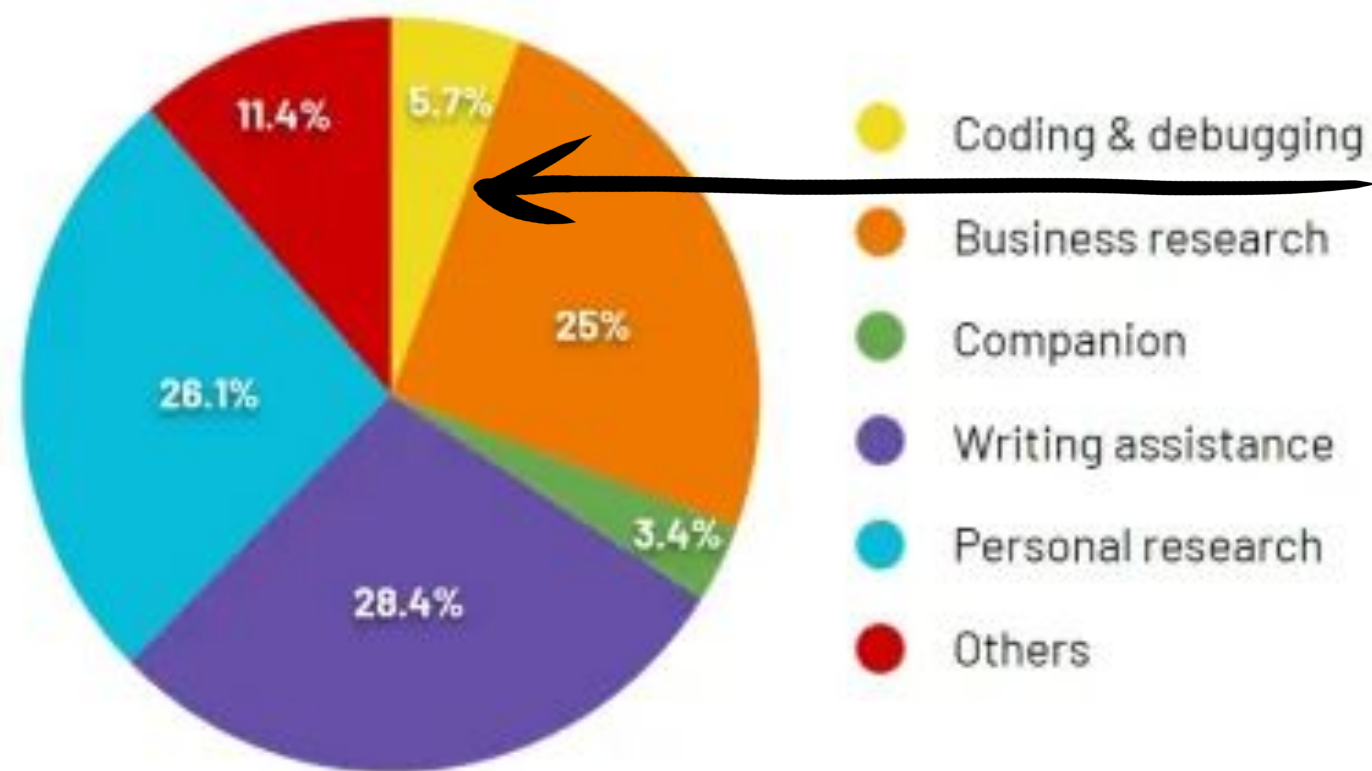|	Artificial Narrow Intelligence (ANI)	Stage-1	Machine Learning	Specialises in one area and solves one problem
	Artificial General Intelligence (AGI)	Stage-2	Machine Intelligence	Refers to a computer that is as smart as a human across the board
	Artificial Super Intelligence (ASI)	Stage-3	Machine Consciousness	An intellect that is much smarter than the best human brains in pratically every field

Source: Great Learning │ Infographic design by Antonio Grasso

DeltalogiX

deltalogix.blog

Conclusion

Knowledge workers are becoming dependent on ChatGPT

A poll from Momentum Works community on what they use ChatGPT for

- 5.7%
- 25%
- 3.4%
- 28.4%
- 26.1%
- 11.4%

- Coding & debugging
- Business research
- Companion
- Writing assistance
- Personal research
- Others

Many people around us (and even us included) have been **using ChatGPT regularly – for a variety of tasks.** See the results of our poll on the left.

However, the fascinating thing here is – **we do not yet know the full extent of tasks ChatGPT can perform well on.** More capabilities will certainly emerge.

OpenAI has put forward a disclaimer / warning: "ChatGPT sometimes writes **plausible-sounding but incorrect or nonsensical answers."**

However, **humans often do the same, and they do not put such a disclaimer.** Savvy knowledge workers and managers have already learnt how to navigate through this, and fact check, through their dealings with fellow human intelligence.

Not to mention that **Generative AI learns and improves faster** than many of us.

Ⓒ Momentum Works

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https://thelowdown.momentum.asia/the-emergence-of-large-language-models-llms/

Conclusion

LLMs will *not entirely replace us by now*,
and maybe never in the future!

So let's use them as **a good tool that they are!**
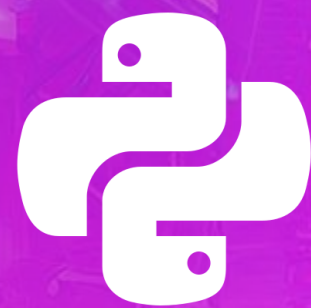
ALL SAMPLES & LINKS USED

https://github.com/diondcm/PyGUI-2023

Contacts:

https://www.aquasoft.com.br/

https://www.linkedin.com/in/dion-mai/

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THANKS FOR WATCHING