

AI tools for common use

CWS– December 7, 2023

Agenda

- Reflections on AI tools and IP procedures
- AI tools in IP offices
- WIPO's approach and WIPO's AI office tools

AI, Machine learning, Generative AI

AI has come a long way in the last year as we have new tools (Generative AI) and buzz and the understanding that AI tools can improve working procedures has generalized but:

- Game changing use cases are still not so numerous for IP administration
- AI tools are difficult and costly to develop and their quality difficult to assess
- Quality AI tools require qualitative and quantitative training data sets
- The open-source community is very active in the field and many AI models become available for experimenting and possibly for use in production
- Buy / reuse / build dilemma is growing

Most frequent use cases

- IPC/CPC automated classification to route patent applications to examiners
- Patent prior art pre-search
- Image similarity search for trademarks / Industrial Designs
- Machine Translation for patent texts
- Goods and Services texts similarity and Nice classification
- Chatbot, email drafting (customer services)

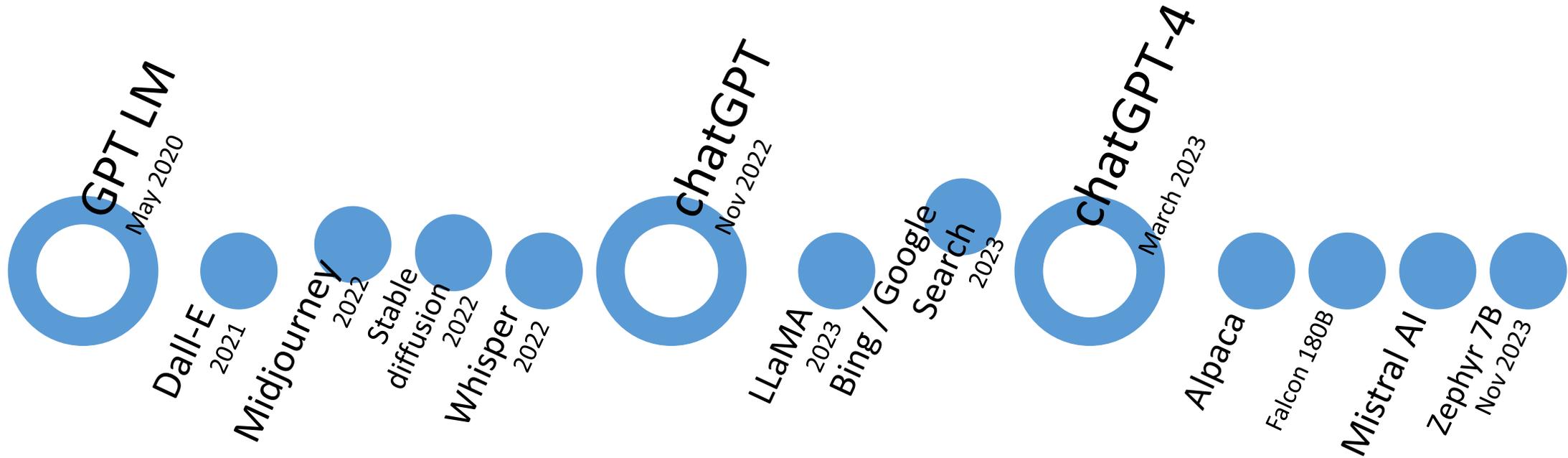
WIPO's approach to developing custom AI tools

- Careful choice of projects with evaluation of possible ROI
- No satisfying or cost effective off-the-shelf solution (incl. confidentiality of data)
- Business driven - importance of integration
- Expectation management and proper evaluation

- Quick prototyping **“fail fast to innovate faster”**

- Technological survey, academic network
- Synergies through data sharing and exchange
- Open source technologies
- Use “recent/clean/big” data

Fast changing field, Generative AI example



WIPO's AI tools publicly available

- WIPO Translate (within PATENTSCOPE)
- WIPO Image similarity search for trademarks (within Global Brand Database)
- WIPO Vienna Classification Assistant
- Global Goods and Services Terms Explorer
- WIPO IPC classifier (IPCCat and within PATENTSCOPE for NPL documents)
- WIPO Speech2Text (within WIPO webcasting search platform)

WIPO's AI tools available to offices

- WIPO Translate on premises (supports high volumes), in use by DPMA, KIPO and EAPO
- WIPO TM image similarity search API, in use by DPMA, in discussion with several other IP offices
- Other existing tools to be discussed

WIPO's AI tools available to UN organizations

- WIPO Translate on premises :
 - In use at WTO
- WIPO Speech2Text
 - In use at UN (Geneva), WTO, ILO, European Court of Justice

Generative AI

- Use cases: routing/cleaning/filtering/searching/drafting/summarizing etc.
- Confidentiality issues
- Build/buy/customize?
- Game changing success stories ?
Please share your experience

AI tools in offices

WIPO maintains a repository of AI tools used by IP offices at:

https://www.wipo.int/about-ip/en/artificial_intelligence/ip_administration.html

Offices are encouraged to send updated information regularly so that successful use cases, technologies and possibly tools can be shared with other offices.

Thank you

