

What is Jais?

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About Jais:

- It is a **bilingual Arabic-English model** that has been trained on a massive dataset of text and code.
- It can be used for a **variety of tasks**, such as **machine translation, text summarization, and question answering**.
- It was trained on the **Condor Galaxy, the world's largest AI supercomputer**, using 116 billion Arabic tokens and 279 billion English tokens.
- It is **also open-source**, which means that anyone can use it or contribute to its development.
- It is available to download on the Hugging Face machine learning platform.
- The release of Jais is a significant step forward for the development of AI in the Arabic world.
- **Applications**
 - Potential applications of Jais include, Machine translation which can be used to translate text from Arabic to English and vice versa.
 - This could be used to improve the **accessibility of information** to Arabic speakers, as well as to facilitate communication between Arabic speakers and speakers of other languages.

- It adeptly distills **extensive textual content, from news articles to research papers**, into succinct and comprehensible summaries, enhancing accessibility and comprehension.
- It also gives response to queries **about text, enabling educational tools like responsive chatbots** for students or robust customer service applications for client inquiries.

What are Large Language Models?

- These are deep learning algorithms that can **recognize, summarize, translate, predict, and generate content** using very large datasets.
- The popular **ChatGPT AI chatbot is one application** of a large language model. It can be used for a myriad of natural language processing tasks.
- The nearly infinite applications for LLMs also include:
 - **Retailers and other service providers can use** large language models to provide improved customer experiences through dynamic chatbots, AI assistants and more.
 - **Search engines can use large language** models to provide more direct, human-like answers.
 - **Life science researchers can train** large language models to understand proteins, molecules, DNA and RNA.

Q1) What is a supercomputer?

A supercomputer is an extremely powerful and high-performance computing machine designed for handling complex and computationally-intensive tasks. These machines are used for a wide range of scientific, engineering, and research applications that require massive computational capabilities.

Source: [Jais, the World's Most Advanced Arabic Large Language Model, Released](#)

Source: <https://vajiramandravi.com/current-affairs/jais/>

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