InData Labs

THE ERA OF GPT:

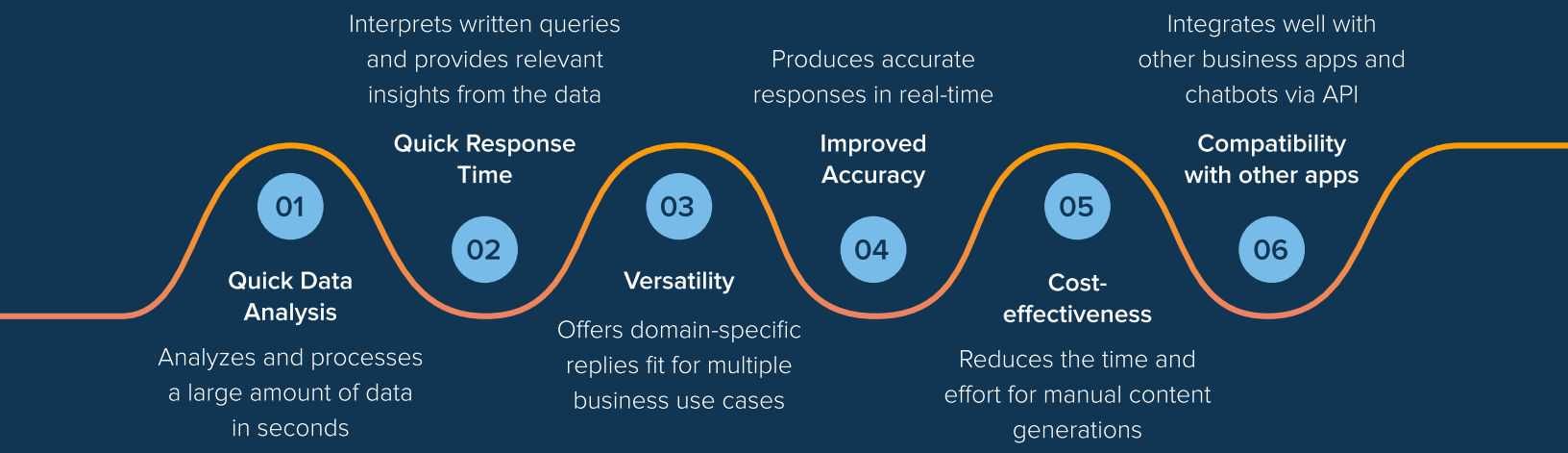
Quick Guide

ChatGPT, an AI chat app, took the business world by storm with its unmatched generative capabilities and versatility. High performers - from Microsoft to Salesforce - were among the first to recognize the potential of conversational intelligence for better customer experiences.

Along with elevated product service, ChatGPT can automate a myriad of business processes, comb through a raft of financial data, and even keep a close watch over your vulnerable assets.

HOW LANGUAGE MODELS LIKE CHATGPT BENEFIT YOUR BUSINESS

The future of business operations is built on automation that saves time, increases quality, and leads to higher productivity in the workplace.



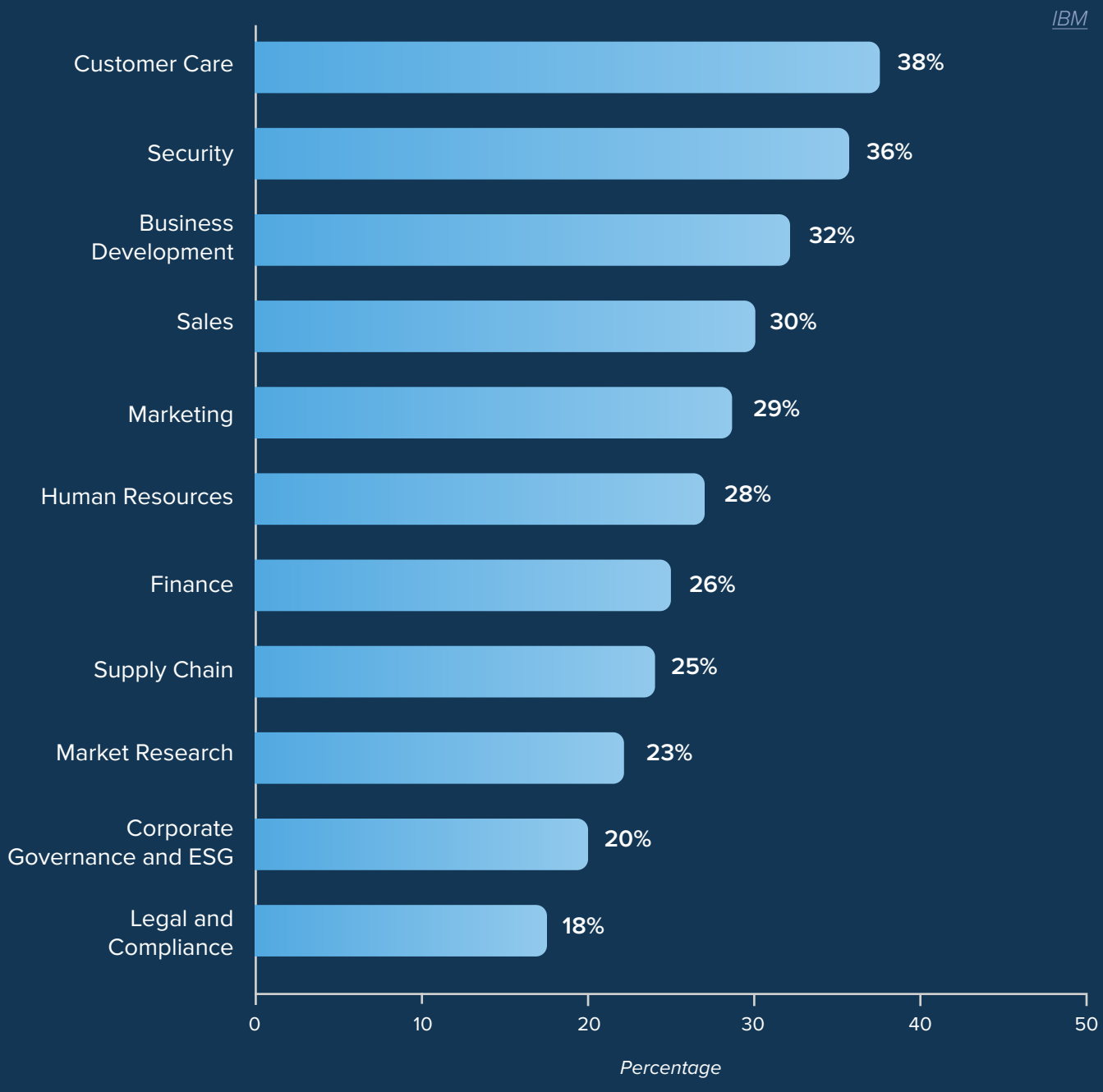
Put Another Way, NLP Tools Like ChatGPT Allow You to...

- Perform large-scale analysis
- Streamline business processes
- Reduce labor costs
- Improve customer satisfaction
- Automate administrative tasks
- Supplement research for product development

KEY USE CASES FOR LANGUAGE MODELS IN MODERN BUSINESS

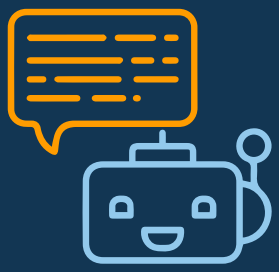
NLP-powered language models promise to revolutionize the way businesses operate by automating each aspect of business management.

How Are Companies Using NLP Models?



Ways to Use ChatGPT in Customer Support

- Provide multilingual support to the global audience
- Quick response to customer queries & complaints
- Classify the sentiment of customers' inquiries
- Provide personalized responses to each customer
- Answer repetitive questions



Ways to Use ChatGPT in Marketing and Sales

- Generate copy for marketing assets
- Produce a personalized offer for a prospect
- Cook up customer surveys
- Perform research on trendy topics
- Automate social media management

Ways to Use ChatGPT in Administrative Tasks

- Analyze vast amounts of data
- Generate reports and alerts
- Create audio and video transcripts
- Make business presentations
- Create agenda for meetings

Ways to Use ChatGPT in Recruitment

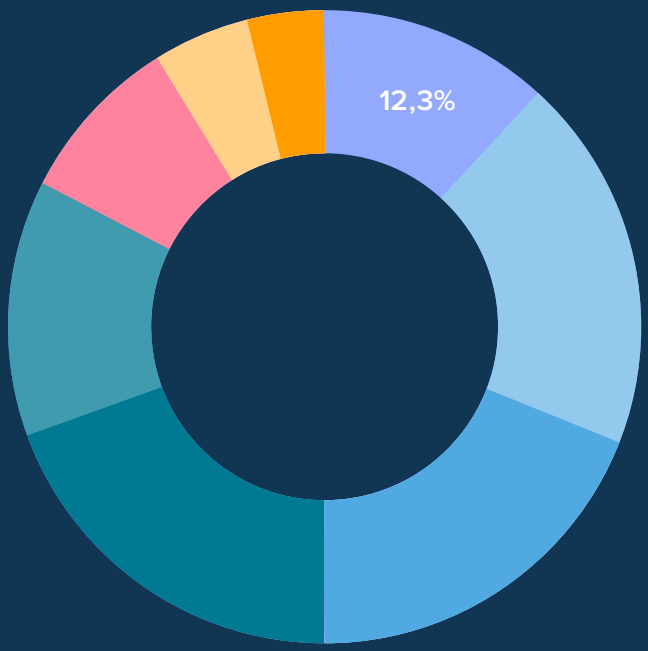
- Create an interview question bank
- Write Boolean search strings
- Craft candidate outreach copy
- Write job advertisements
- Assess the candidate's suitability
- Run automatic CV screening

INDUSTRIES TO BE DISRUPTED WITH LANGUAGE MODELS

Language models have found their way into customer-facing business functions and hold great potential to take over the back-end business processes.

Global Natural Language Processing Market Share, By Industry

Fortune Business Insights



The healthcare industry is expected to grow at a highest CAGR.

Fortune Business Insights

Automotive, telecom, and banking account for the largest NLP market share.

One of the key drives for market growth is the rising adoption of digital-first operating models.

The NLP adoption in small and medium-sized businesses is projected to grow at a highest CAGR.

Fortune Business Insights

Over three-quarters of businesses plan to spend more on NLP projects in the next 12-18 months.

expert.ai

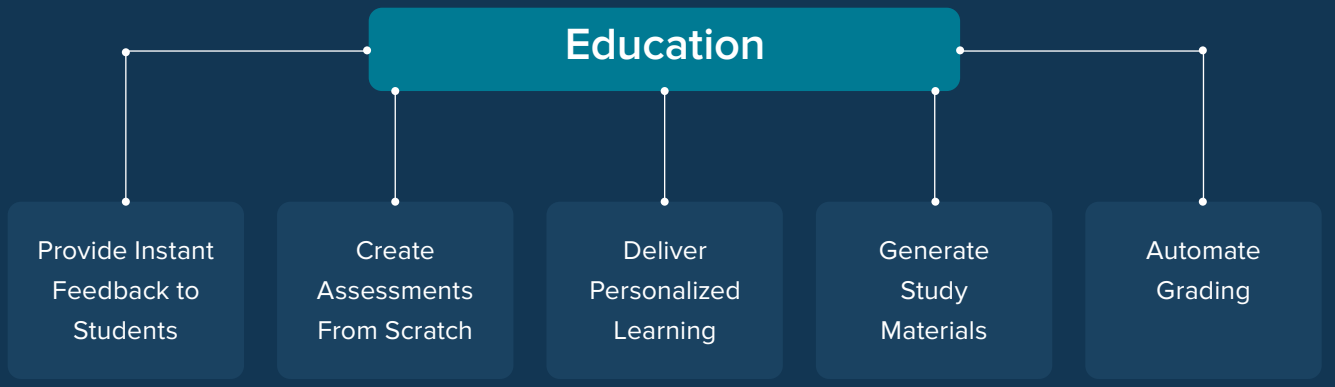
EXISTING AND POTENTIAL USE CASES FOR CHATGPT BY INDUSTRY

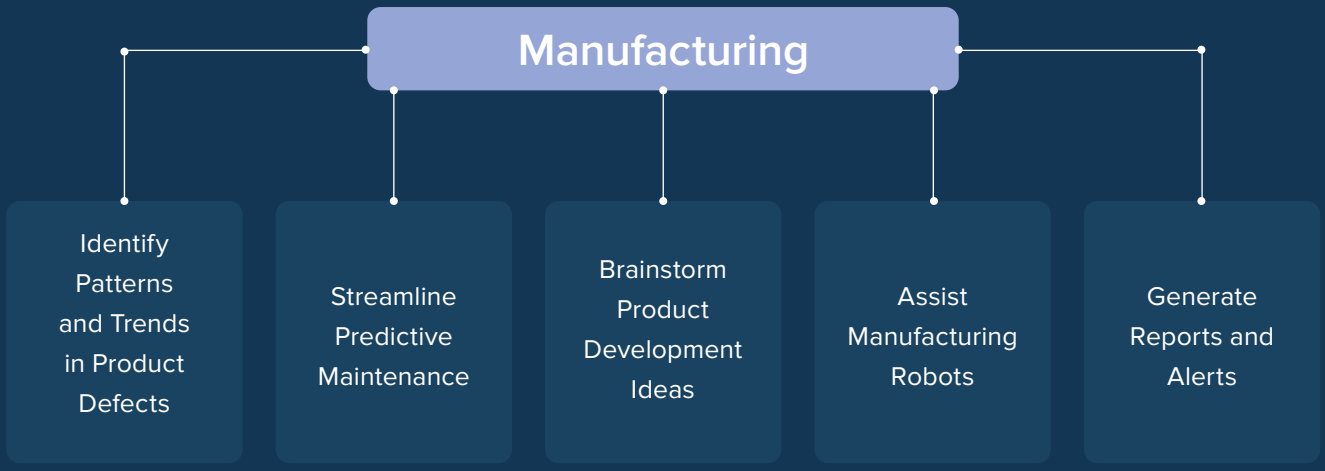
Healthcare

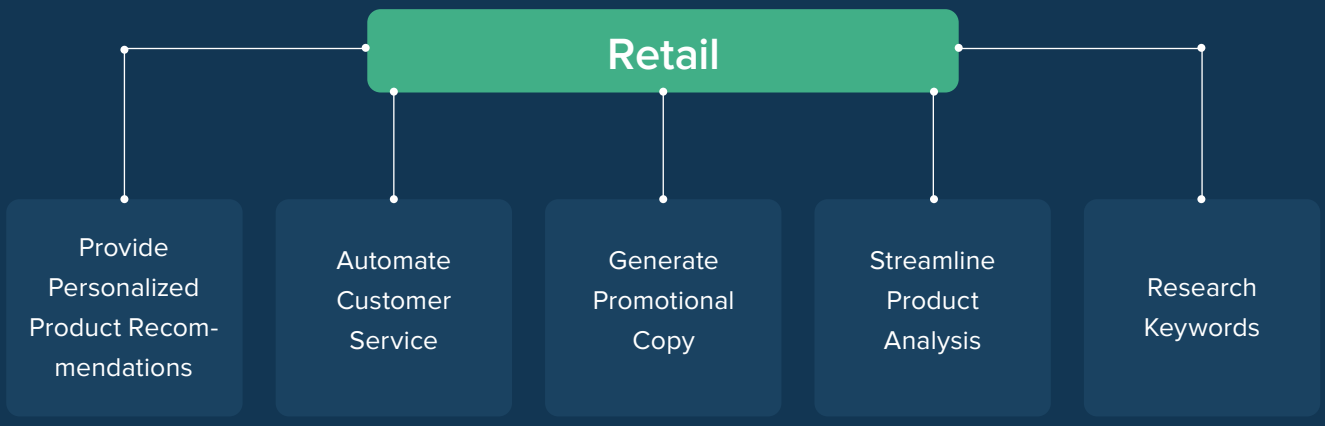
- Enhance Clinical Decision Systems
- Automate Administrative Functions
- Power Patient-Facing Assistants
- Summarize Patient Records
- Provide Answers to Patient FAQs

Banking

- Automate Customer Service Systems
- Detect and Prevent Frauds
- Optimize Loan Origination
- Identify Compliance Violations
- Automate Customer Onboarding


Education
Provide Instant Feedback to Students
Create Assessments From Scratch
Deliver Personalized Learning
Generate Study Materials
Automate Grading


Manufacturing
Identify Patterns and Trends in Product Defects
Streamline Predictive Maintenance
Brainstorm Product Development Ideas
Assist Manufacturing Robots
Generate Reports and Alerts

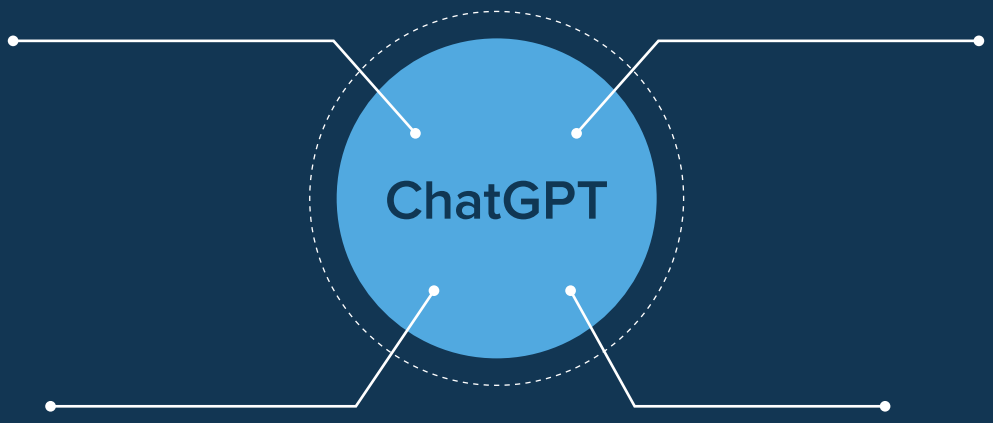

Retail
Provide Personalized Product Recom-mendations
Automate Customer Service
Generate Promotional Copy
Streamline Product Analysis
Research Keywords

A SHORT TECH OVERVIEW OF CHATGPT

ChatGPT is a generative conversation-based model powered by large amounts of data and computing techniques. The tool can engage in a human-like conversational dialogue and provide a detailed response based on the user's input.

The Building Blocks of ChatGPT

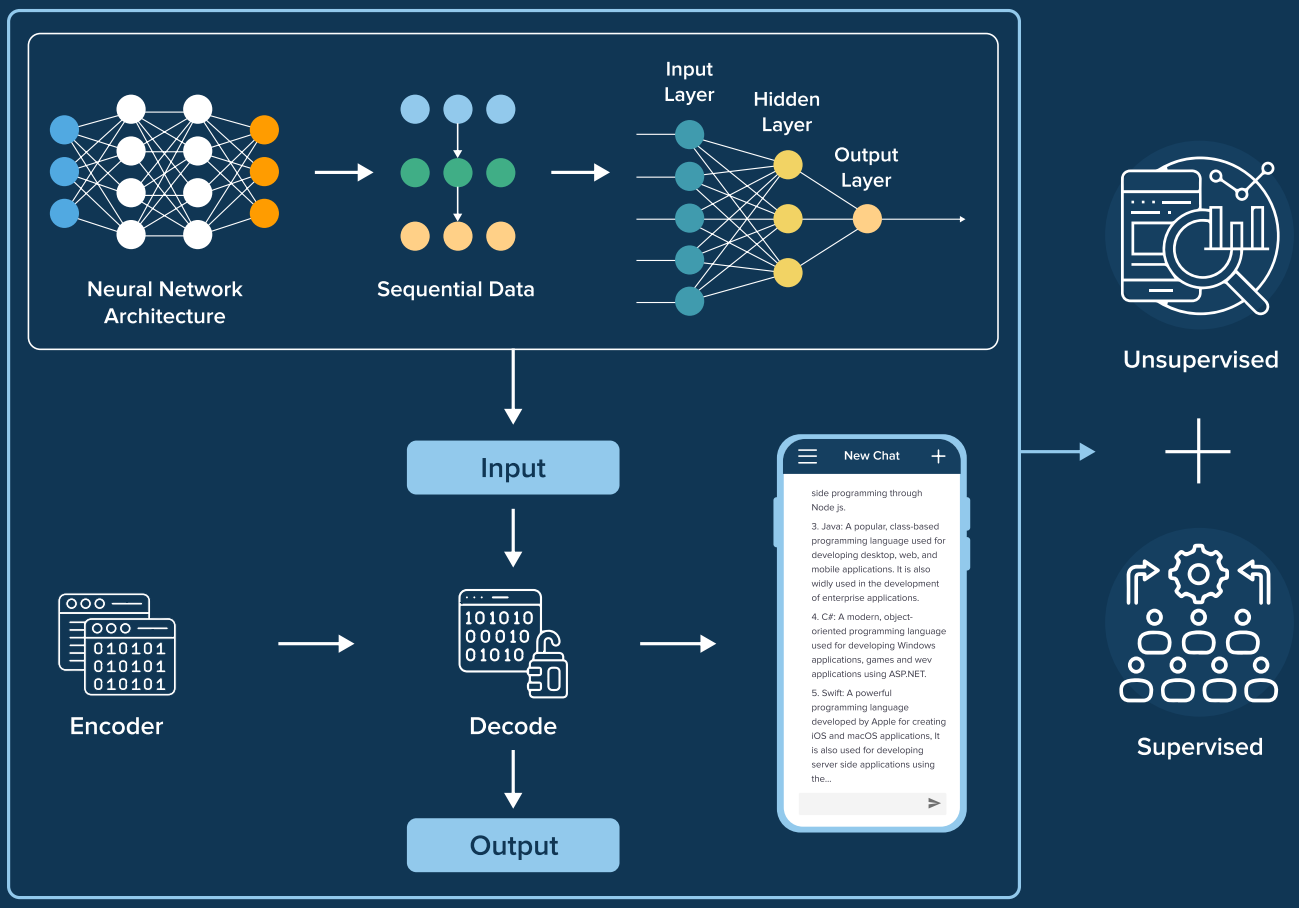
ChatGPT sits on top of the Generative Pre-trained Transformer (GPT) - a language model that has its source in deep learning technology. It also uses an additional level of InstructGPT to optimize its conversational abilities.



How does ChatGPT work?

ChatGPT combines the Transformer and Language model to generate a relevant response to the user.

Transformer Model



Language Model

5 FASCINATING FACTS TO KNOW ABOUT CHATGPT

As an AI-first tool, ChatGPT marks a new milestone in the history of artificial intelligence, raising the bar high for other intelligent chatbots.

01

ChatGPT was trained on over 570 Gb of text

The training data was obtained from books, webtexts, articles, and other pieces of writing with a total of 300 billion words.

02

The ChatGPT model grows from a capacity of around 175 billion parameters

Parameters stand for the number of weights in the model's neural network and allow the model to discern complex patterns of natural language.

03

ChatGPT knows at least 95 natural languages, including a range of programming and code languages

The transformer architecture used in ChatGPT learns the grammatical and semantic norms of each language, making it equally proficient in multiple languages.

04

The tool reached a record-breaking number of users - over 1 million after 5 days of its launch

In January 2023, ChatGPT amassed over 100 million active users.

05

ChatGPT's core capability is generating texts of different complexity and for different purposes.

Its large-size and diverse training data enables the tool to produce high-quality text and answer a wide range of questions with an accuracy of 85+%.

PUSHING THE BOUNDARIES OF NATURAL LANGUAGE PROCESSING

ChatGPT unlocks the new age of NLP tools - with indefinite potential, in-depth understanding of human language, and impressive domain versatility.

Evolution of NLP Intelligence

EDGE LANGUAGE MODELS

language models that are purposefully small in size and bound by the hardware found in edge devices.

FINE-TUNED LANGUAGE MODELS

a new generation of large language models that take less time and data to be trained.

LARGE LANGUAGE MODELS

a language model based on a neural network trained on large amounts of conversational data to look into the grammatical and syntactic structures of language.

CHATBOTS

programs designed to interact with simulate human language and perform routine tasks based on a predetermined script.

About InData Labs

InData Labs is a leading data science firm and AI-powered solutions provider with its own R&D center.

Having a mission to bring the power of AI to every business, we help organizations of any size create intelligent products and services or shape intelligent business processes.

Since 2014, our solutions and consulting services help our clients to get valuable insights into data, automate repetitive tasks, enhance performance, add AI-driven features, and prevent cost overruns.

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