

Generative AI

Generative AI



Text generation

#Изображения/Видео/Аудио

Generate text based on the user description (prompt), like sales pitch, customer emails, questions for articles, instructions, code generation, requests to databases using text requests.

Generative AI



Text summarization

#LLMs (Large Language Models)

Summarize long articles, documents, or news stories, making it easier to extract key information.

Generative AI



Semantic search

#LLMs (Large Language Models)

Perform search using meaning of the request, not keywords, through customer structured and unstructured data. Provides human-like answers to policies, contracts, products catalogs, etc.

Generative AI



Media content creation

#Image/Video/Audio

Create realistic and novel content from any description, like content supporting materials, advertisement assets, video from image.

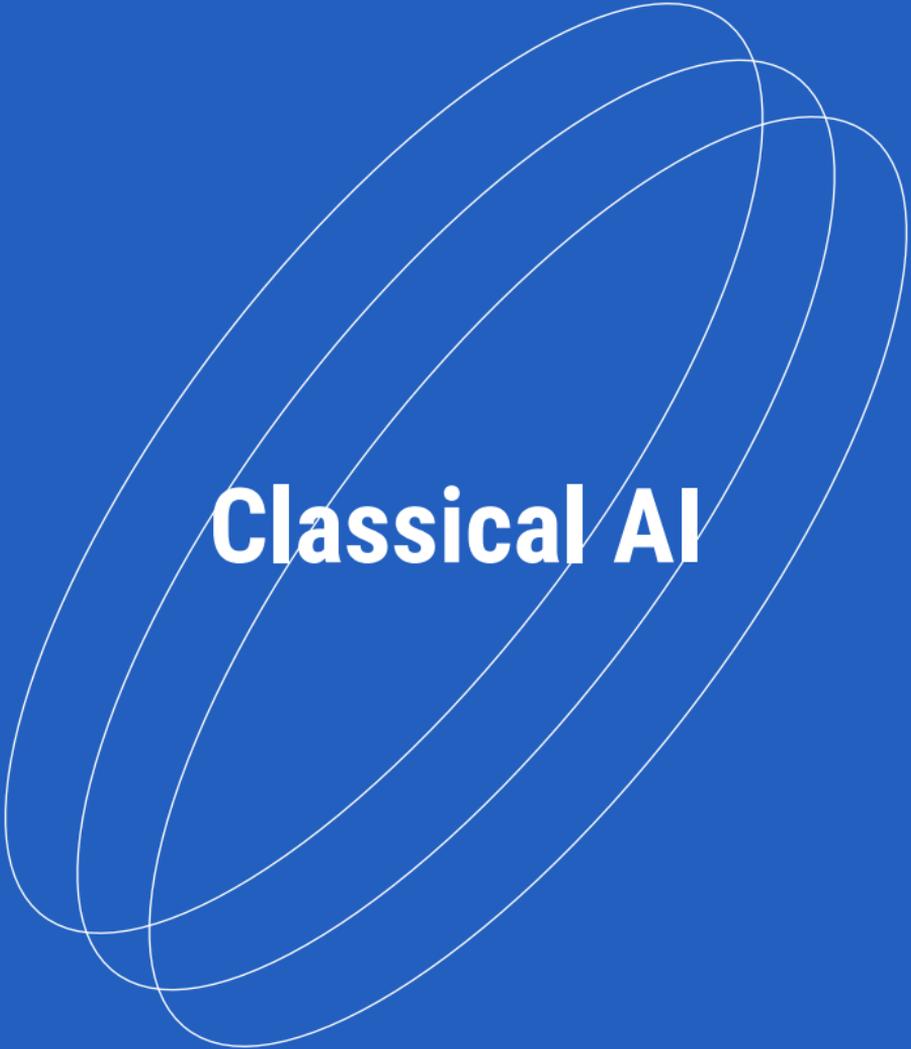
Generative AI



Content transformation

#Image/Video/Audio

Modify or enhance existing media content with different effects, styles, or formats, transfer styles from one image to another, remove or add objects.



Classical AI

Classical AI



Object detection/ recognition/classification

#Computer Vision

Detect and classify objects, humans, and faces on images or video stream.

Examples:

- In healthcare: to analyze X-rays, CT scans, MRIs, to detect diseases;
- In manufacturing: to count product, perform quality control, register safety rules violation;
- In retail: to monitor products placement, manage inventory.

Classical AI



OCR (object characters recognition)

#Computer Vision

Extract text from images and videos for further processing. Used for PDF parsing, scans and handwritten text information extraction.

Classical AI



Speech-to-Text, Text-to-Speech

#Audio Processing

Transfer speech to text for further processing and creation of voice command interfaces. Monitor call-centers statistics by semantic analysis, discussions summarization, evaluation of service level, emulate people to create voice assistants.

Classical AI



Sound recognition

#Audio Processing

Environmental sounds recognition and classification, such as vehicles, manufacturing machines, noise from mechanical equipment, etc. Used for industrial quality control, predictive maintenance, and more.

Classical AI



Data forecast

#Data Analytics

Predict the future based on historical data, for example future customer needs, market demand, revenue forecast, retail metrics prediction and other predictions.

Classical AI



Anomaly detection

#Data Analytics

Identify data points that deviate significantly from the expected or normal behavior of a time series. Able to send this data for manual verification. Used in fraud detection and predictive maintenance.

Classical AI



Getting insights from the data

#Data Analytics

Could be applied to any data customer has to perform tasks like:

- finding correlations and dependencies between different parameters;
- searching for customer behavioral patterns;
- calculating business metrics;
- analyzing performance metrics.



Innovation technologies

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Innovation technologies



RPA

#RPA (Robotic Process Automation)

Use solutions to automate human routine, such as:

- Data migration through visual interfaces (from files to systems);
- Periodic reports creation from multiple data sources and tools.

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Collect data from sensors for further analysis

#IoT (Internet of Things)

This data is used in a variety of industries and use cases.

For example:

- In manufacturing: to collect real-time data, calculate performance, detect bottlenecks, and prevent failure;
- In logistics: to track a fleet of vehicles;
- In retail: to monitor store equipment.

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Virtual try-on

#XR (eXtended Reality)

Allows users to virtually try products (watches, jewelry, shoes) or cosmetics and see the results through mobile and web interfaces. Extensively uses computer vision techniques.

Innovation technologies



XR-Simulation

#XR (eXtended Reality)

Uses mixed reality headsets to train employees to perform new manual operations.

Applied in:

- Manufacturing: to provide equipment maintenance instructions;
- Healthcare: to assist surgeons with a patient's critical parameters during an operation.

Innovation technologies



Digital assistance

#ChatBots

A computer program that simulates and processes human conversation. For example, used in customer support, the program follows the scripts and provides instructions to the users. Can be integrated with data sources. Extensively uses AI techniques to handle unknown dialogue scenarios and parse unstructured users' inputs.