

Primena generativne veštačke inteligencije u poslovnom okruženju

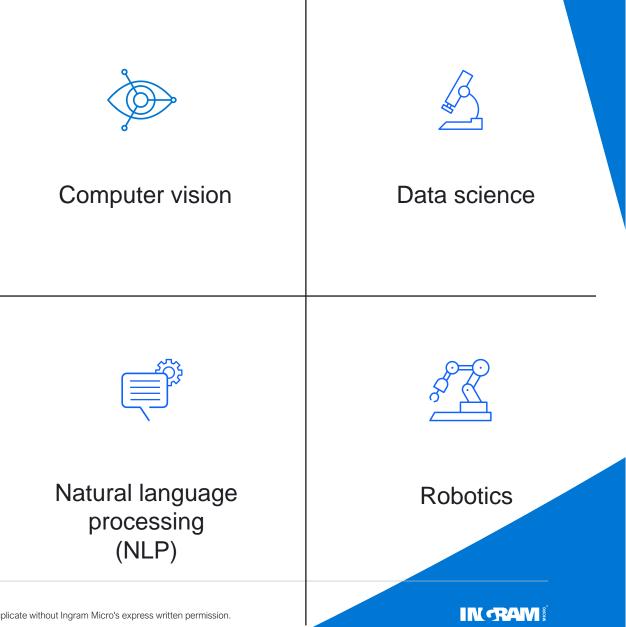
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What is AI?

Al refers to the ability of computer systems to attempt to mimic the problem-solving and decision-making capabilities of the human mind.



Artificial Intelligence (AI) Human intelligence exhibited by machines

AI can be defined as a technique that enables machines to mimic cognitive functions associated with human minds – cognitive functions include all aspects of learning, reasoning, perceiving, and problem solving.



1950's

Machine Learning (ML)

Systems that learn from historical data

ML-based systems are trained on historical data to uncover patterns. Users provide inputs to the ML system, which then applies these inputs to the discovered patterns and generates corresponding outputs.



1980's

Deep Learning (DL)

ML technique that mimics human brain function

2010's



DL is a subset of ML, using multiple layers of neural networks, which are interconnected nodes, which work together to process information. DL is well suited to complex applications, like image and speech recognition.

Foundation Model

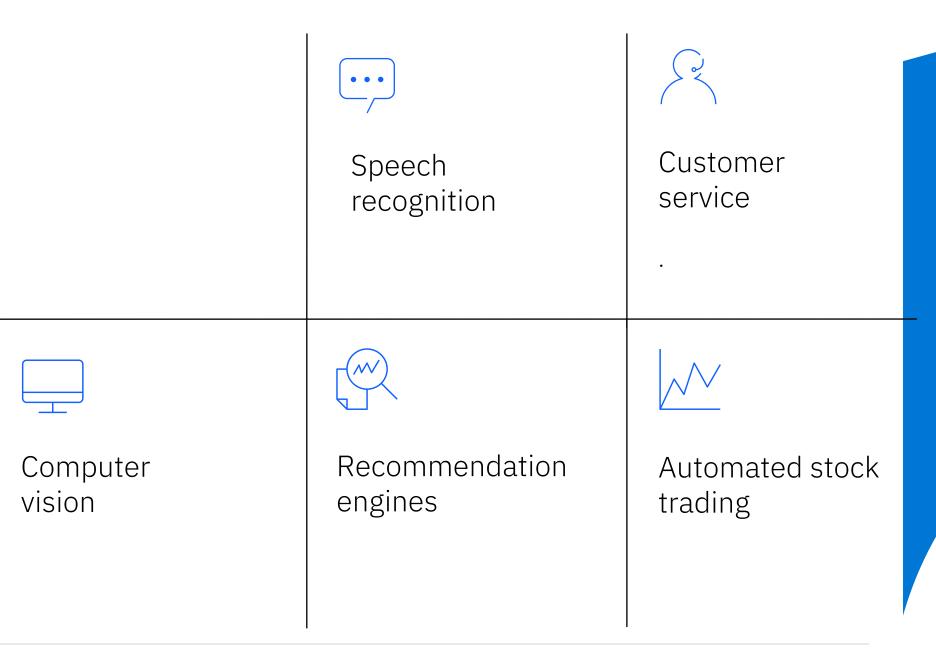
Generative AI systems

2020's



AI model built using a specific kind of neural network architecture, called a transformer, which is designed to generate sequences of related data elements (for example, like a sentence).

Traditional AI applications



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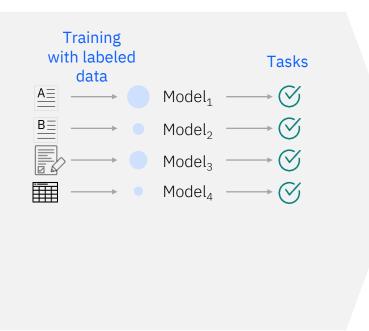
Generative AI applications

	J Text generation	Code generation
Of the second se	O Generate simulated data	Image & video generation

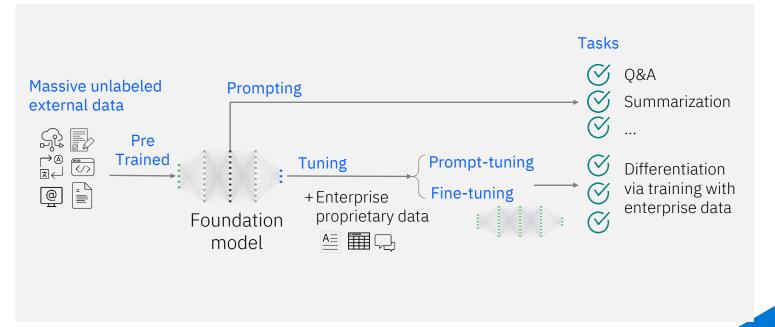


Foundational models enable a new paradigm of dataefficient AI development – generative AI

Traditional AI models



Foundation Models



- Individual siloed models
- Require task specific training
- Lots of human supervised training

- Rapid adaptation to multiple tasks with small amounts of task-specific data
- Pre-trained unsupervised learning

Generative AI and traditional AI

Both traditional AI and generative AI are useful for enterprises. Neither replaces the other, generative AI opens new possibilities

Generative AI

- Foundation models trained with unlabeled data
- Unsupervised
- Trained on very big data sets
- No specific task
- Transferable
- Works well for general tasks and can improve for specific tasks with less training
- Need to monitor bias and drift

Traditional AI

- Traditional Machine learning (ML/AI) model trained with "labeled" data
- Training is supervised
- Trained on proper, large data sets
- Trained for a specific task
- Does not transfer well to other tasks
- A tuned model can be very efficient for the specific task it was designed for
- Need to monitor bias and drift

Most common generative AI tasks implemented today

Summarization

Transform text with domainspecific content into personalized overviews that capture key points.

Conversation summaries, insurance coverage, meeting transcripts, contract information

Classification

Read and classify written input with as few as zero examples.

Sorting of customer complaints, threat and vulnerability classification, sentiment analysis, customer segmentation

Generation

Generate text content for a specific purpose.

Marketing campaigns, job descriptions, blog posts and articles, email drafting support

Extraction

Analyze and extract essential information from unstructured text.

Medical diagnosis support, user research findings

Question-answering

Create a question-answering feature grounded on specific content.

Build a product specific Q&A resource for customer service agents.





The platform for AI and data

Scale and accelerate the impact of AI with trusted data.

watsonx.ai

Train, validate, tune and deploy AI models

A next generation enterprise studio for AI builders to train, validate, tune, and deploy both traditional machine learning and new generative AI capabilities powered by foundation models. It enables you to build AI applications in a fraction of the time with a fraction of the data.

watsonx.data

Scale AI workloads, for all your data, anywhere

Fit-for-purpose data store, built on an open lakehouse architecture, supported by querying, governance and open data formats to access and share data.

watsonx.governance

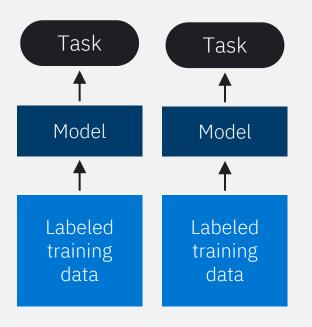
Enable responsible, transparent and explainable AI workflows

End-to-end toolkit encompassing both data and AI governance to enable responsible, transparent, and explainable AI workflows.

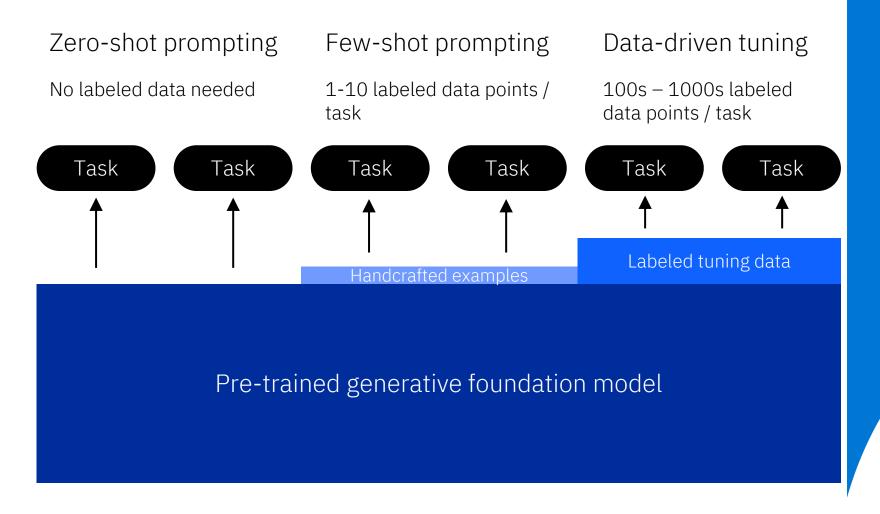


Conventional AI

1000s – 100000s labeled data points / task



What's next with foundation models:



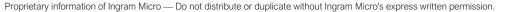
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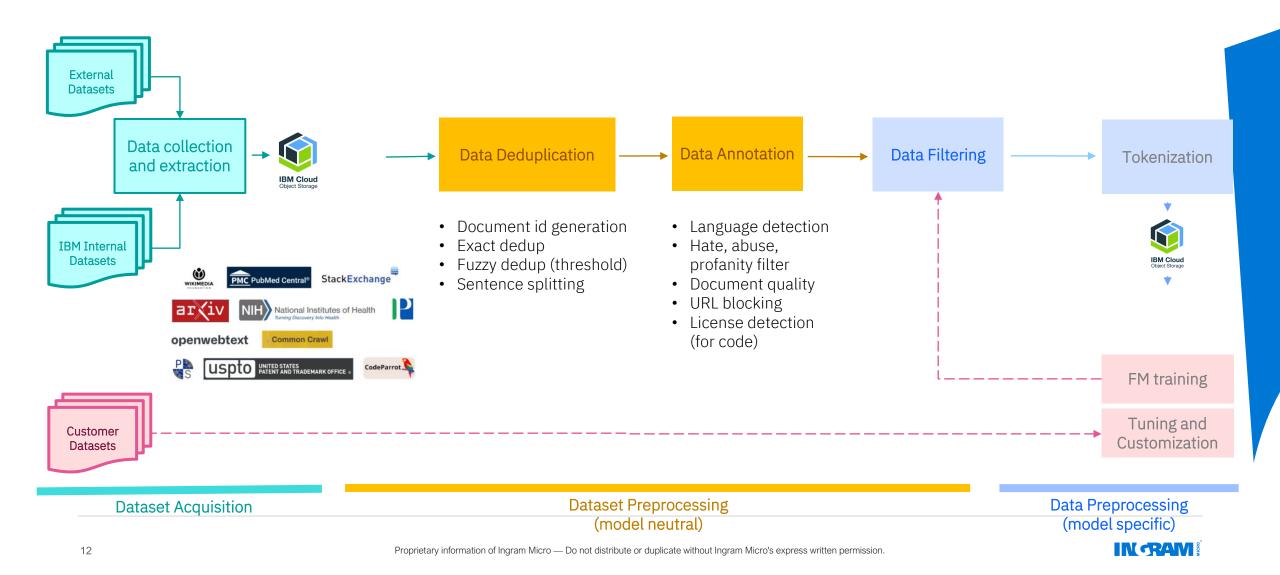
Train, validate, tune, and deploy AI models with confidence

Plus, a proven studio Generative AI capabilities for machine learning Foundation model library ModelOps 0 Π Automated development Prompt Lab Decision optimization Tuning Studio* Team collaboration and data preparation



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Thanks!

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