What is GPT-3?

Everything You Need to Know

Your Company Name

Agenda

What is GPT-3? Everything you need to know

01
Gain comprehensive understanding of GPT-3 technology along with its history, working, pros & cons

02
Ascertain its capabilities such as text generation, summarization, content creation and question answering

03
Explore best GPT-3 powered tools such as OpenAI's ChatGPT, Microsoft Bing, Jasper.ai, Replit, Fireflies, LensAI, etc.

04
Discover how business can integrate GPT-3 in their own products/systems

05
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Overview: What is GPT-3 technology?

This slide showcases introduction to GPT-3 which can provide basic information to this third generation Generative Pre-Trained Transformer technology. It provides details about machine learning parameters, characters, etc.

Third generation Generative Pre-trained Transformer (GPT-3) is an ML model (developed by OpenAI) which works on neural networks used to generate any type of text over the internet

Facts

- GPT-3 is a model with ~175 **billion** ML parameters

- GPT-3 was trained on ~1 **trillion** words of text

- GPT-3 can produce up to **50K** characters/words at a time

- GPT-3 charges an avg. of **2.6 cents** to generate **1000** word article

GPT-3 data is
- o **82%** : from Common Crawl and WebText2
- o **16%**: from Books
- o **3%**: from Wikipedia

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GPT-3: History and milestones achieved

This slide showcases introduction to GPT-3 which can provide basic information to this third generation Generative Pre-Trained Transformer technology. It provides details about machine learning parameters, characters, etc.

GPT-1

- Introduced in Jun'18, GPT-1 was trained using Book Corpus dataset
- Dataset included **7000** unpublished books and **~117** million parameters
- Pre-trained to have zero-shot performance for question answering, sentiment analysis and other NLP tasks
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GPT-2

- Introduced in Feb'19, GPT-2 was trained with text worth 40GB
- Texts contained **8 million** documents and GPT-2 had **~1.5 billion** parameters
- GPT-2 was capable of picking words from prompt and complete remaining sentence
- Add text here

GPT-3

- Introduced in May'20, GPT-3 was trained with data **<45TB (Terabytes)**
- GPT-3 has **~175 billion** parameters
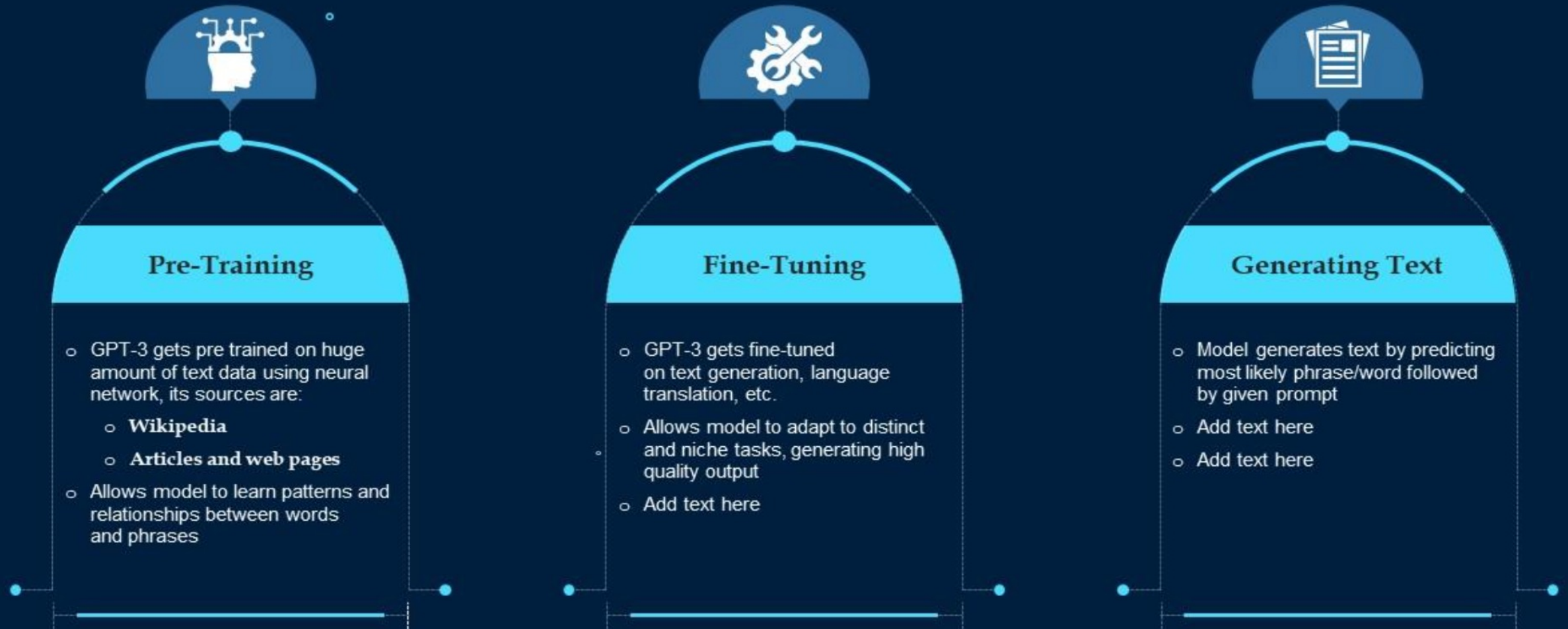- GPT-3 rapidly adapts to human words, stories, paragraphs, etc.
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How does GPT-3 natural language model work?

This slide showcases how GPT-3 technology works which can provide developers/businesses brief about its backend process. It provides details about pre-training, fine-tuning, generating text, etc.

Pre-Training

- GPT-3 gets pre trained on huge amount of text data using neural network, its sources are:
    - **Wikipedia**
    - **Articles and web pages**
- Allows model to learn patterns and relationships between words and phrases

Fine-Tuning

- GPT-3 gets fine-tuned on text generation, language translation, etc.
- Allows model to adapt to distinct and niche tasks, generating high quality output
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Generating Text

- Model generates text by predicting most likely phrase/word followed by given prompt
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What can GPT-3 do for users?

This slide showcases certain things GPT-3 can perform for its users, utilizing ChatGPT for their own productivity and efficiency. It provides details about music, conversation, sentiment analysis, summarization, memes, website mockups, etc.

GPT-3 processes texts to showcase multiple natural language processing (NLP) tasks
Uses NLP to understand and generate human-like text

Common things GPT-3 can do

- Write music, jokes and social media posts
- Automates conversational tasks
- Perform sentiment analysis
- Generate simplified summarization of large text
- Creates memes, recipes, comic strips, ad copies, etc.
- Translates text into programmatic commands
- Create website mock ups
- Translate between programming languages

Comparative analysis: GPT-3 Vs. GPT-2 Vs. BERT

This slide showcases difference between GPT-3, GPT-2 and BERT (Bidirectional Encoder Representations from Transformers). It provides detail about architecture, training corpus size, total parameters, key features, etc.

Model Name	Architecture	Training Corpus Size	Total Parameters	Key Features
GPT-3	Transformer	45 terabytes	175 billion	o Large-scale unsupervised training o Generative language model capabilities o Question-answering and summarization
GPT-2	Transformer	8 million web pages	1.5 billion	o Text generation and summarization o Add text here

BERT	Transformer	3.3 billion tokens	340 million	o Text classification tasks such as:
				  o named entity recognition
				  o question-answering

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