# Build Generative Al operations at scale

Abhishek Agarwal
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#### **About Me**



#### **Abhishek Agarwal**

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#### Strengths \_\_\_\_ Leadership Innovation Collaborate Adaptability Learning





Responsible ML/AI Product Development

#### **Education**



**MBA** Yale SOM



B. Tech (Hons) IIT Kharagpur



#### **Experience**



**HPE** 



Unilever



#### **Personal Interest**

Born & raised in India

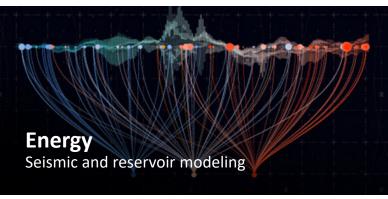
Fun fact: Goal of visiting every continent

**Extend access of technology** 

Promote sustainable development











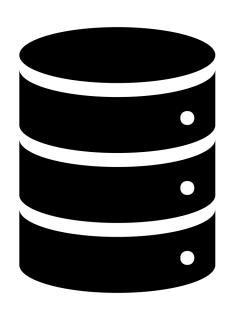


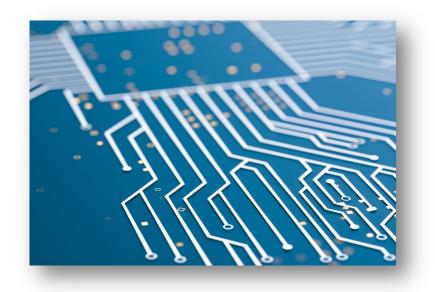






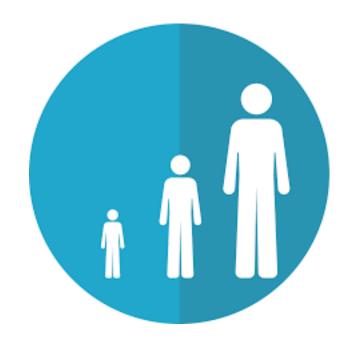
#### **Generative Al Journey**





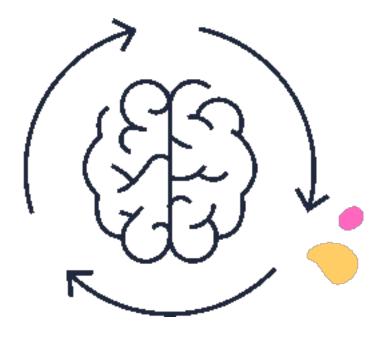


Data Compute Algorithms



**Human Lifetime** 

1 Billion Words



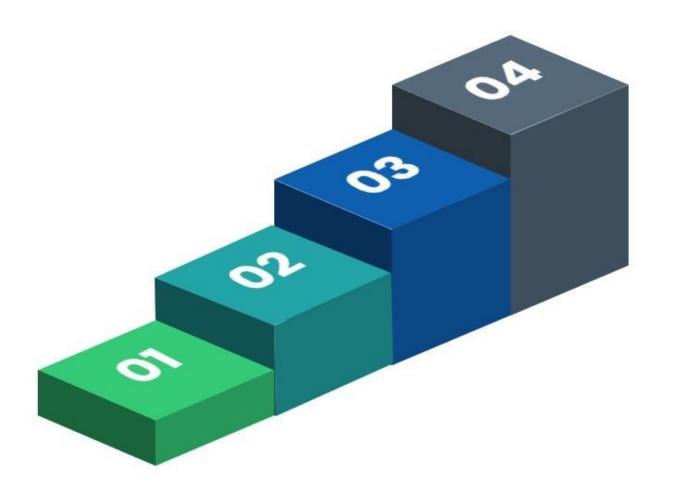
**Foundational Models** 

**Trillions Words** 



#### **Generative AI Adoption Maturity Levels**

Business Value Generated at every Level



#### 01 Emerging Level

- · Build training programs for business and technology teams
- Business experiments with prompts on nonproprietary use cases on market lea open/closed LLM.
- · Technology teams help with making data ready for Model consumptions

#### **02 Progressive Level**

- · An Al Policy is established to ensure compliance...
- Business is able to use a hosted model to solve their proprietary use cases
- · Human prompts are enhanced programmatically by systems

#### 03 Growing Level

- · Retrieval Augmented Generation based Architecture in place
- Finetuning of Models becomes normal, and ML Operations are operationalized.
- Agents are integrated with Models to integrate LLMs with enterprise application

#### **04 Optimizing Level**

- LLMs are smaller and finetuned to run on commodity hardware
- Multi model data preparation tools in place and baked into ML Ops to make dat model ready
- Costs of running Models decreases while adoption in the enterprise increases

#### **Generative AI – Product Managers**

#### **Product Development**

Large Language Models
Machine Learning
Data
Code Generation
Interfaces & processes
Solving complex problem

#### **Product Features**

Capabilities
Values (better, faster, cheaper)
Interaction

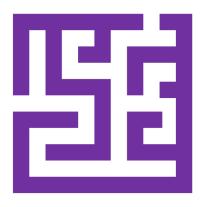
#### **Product Support**

Customer Service FAQs Self improving

#### AI – Value Impact







Ethical complexity



Societal Impact



Human centric design

#### Scenario

An AI designed to optimize energy usage in homes is discovered to potentially compromise user privacy by tracking when residents are home or away. As a product manager, how do you respond?



#### slido



An AI designed to optimize energy usage in homes is discovered to potentially compromise user privacy by tracking when residents are home or away. As a product manager, how do you respond?

<sup>(</sup>i) Start presenting to display the poll results on this slide.

### Connect with Customers

**Best Practices** 

Customize for Clarity and Compliance

Comprehend Ethical Impact

Collaborate Across Disciplines

Calibrate and Secure

## Thank you. Connect with me!

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