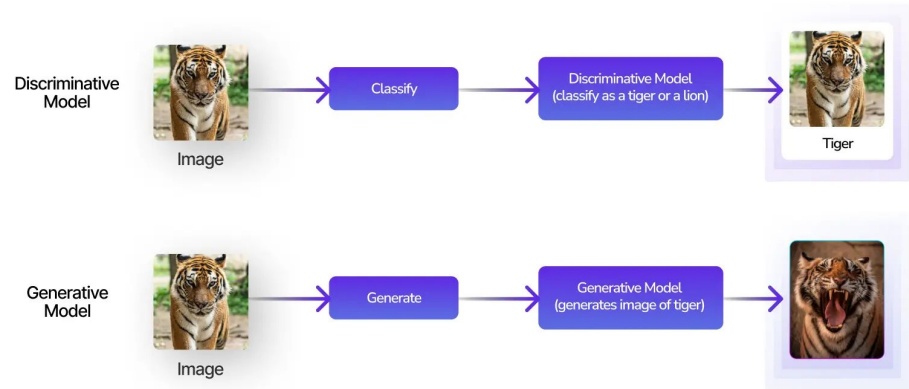


Generative AI for Creators

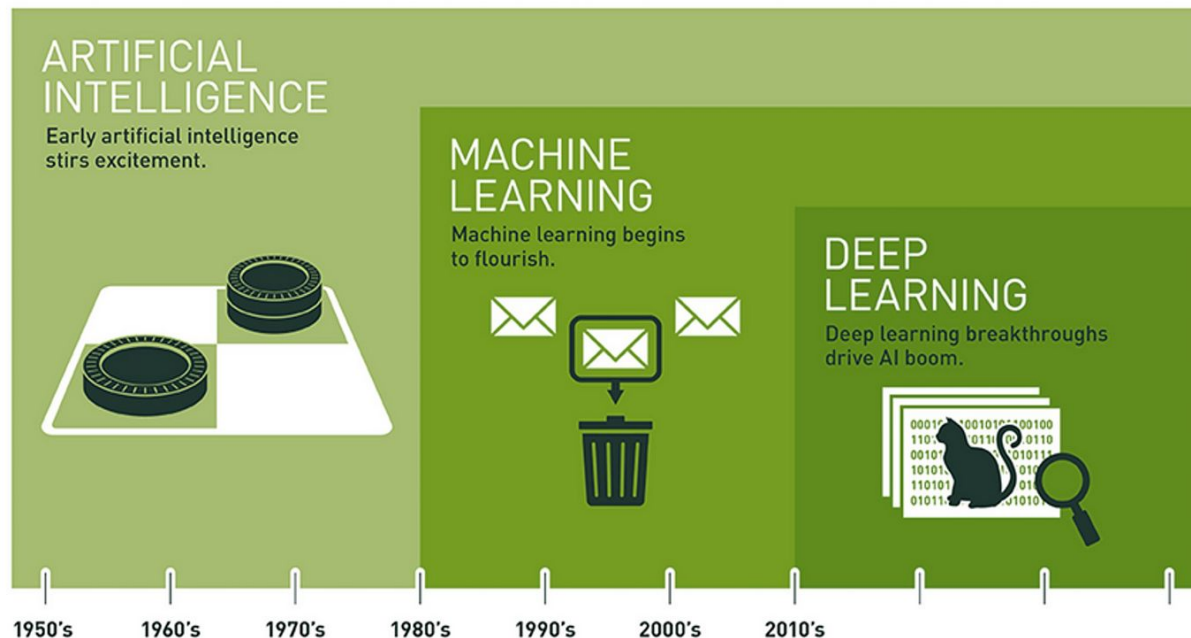
A not-so-technical Introduction

What is Generative AI?

- Generative AI: Branch of AI for creating content based on existing data.
- Examples:
 - Text Generation: ChatGPT, Bard - articles, stories, poetry.
 - Image Generation: Stable Diffusion - realistic images of people, animals.
 - Music Generation: MuseNet - original music in various genres.



Relationship: AI-ML-DL

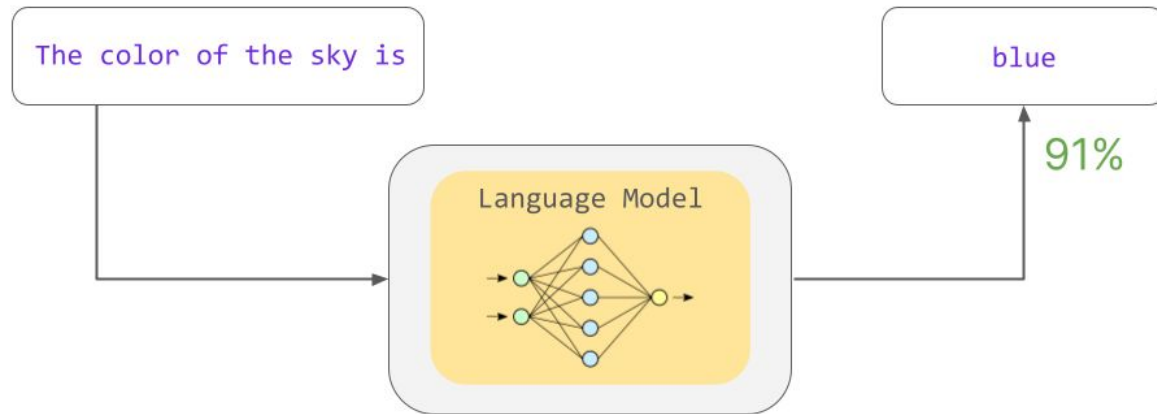


What is a Language Model?

- While typing SMS, have you seen it suggests next word?
- While typing email, have you seen next few words are suggested?
- How does it suggest? (suggestions are not random, right?)
- In the past, for "Lets go for a...", if you have typed 'coffee' 15 times, 'movie' say 4 times, then it learns that. Machine/Statistical Learning.
- Next time, when you type "Lets go for a...", what will be suggested? why?
- This is called Language Model. Predicting the next word. When done continuously, one after other, it spits sentence, called Generative Model.

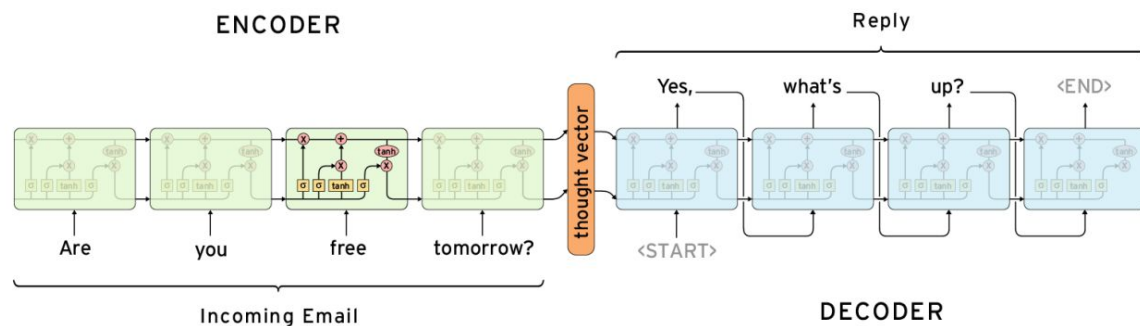


Example



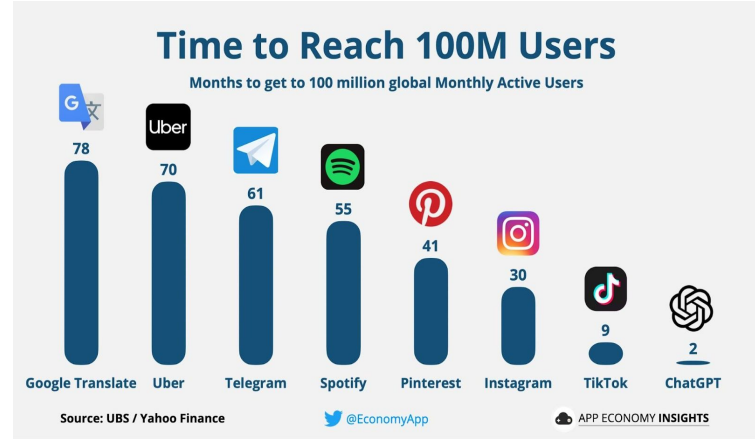
What is a Large Language Model (LLMs)?

- **Large** in terms of corpus used and parameters
- Like LMs, LLMs also predict the next word in a sentence.
- Based on Transformer. Encoder-Decoder with Attention
- Encode part to generate embeddings, Decoder part to generate text



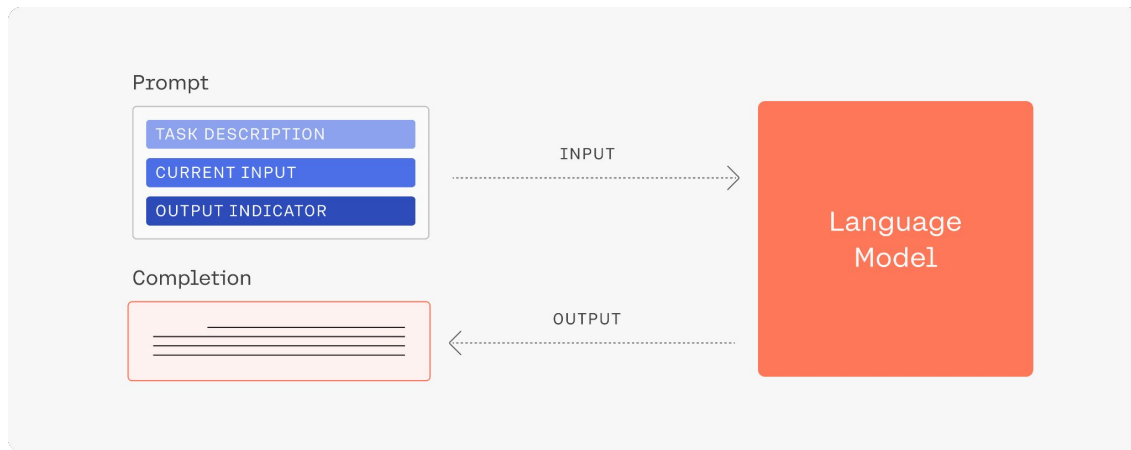
Why should I know?

- ChatGPT – a watershed moment
- From brainstorming, customer service, marketing, wherever language is...
- LLMs are big black boxes
- Need to know properties, capabilities and limitations



New Programming Language: English

- **Prompt:** The prompt is your text input that you pass to the model.
- **Prompt Design:** The art and science of figuring out what text to feed your language model to get it to take on the behavior you want.



New Job, New Market

Prompt Marketplace

Search 100,000+ AI prompts from the world's best AI creators

Midjourney, ChatGPT, DALL-E, Stable Diffusion & more

Explore prompts

Sell prompts

Featured in

TC TechCrunch

THE VERGE

WIRED

FAST COMPANY

FINANCIAL TIMES

The Atlantic

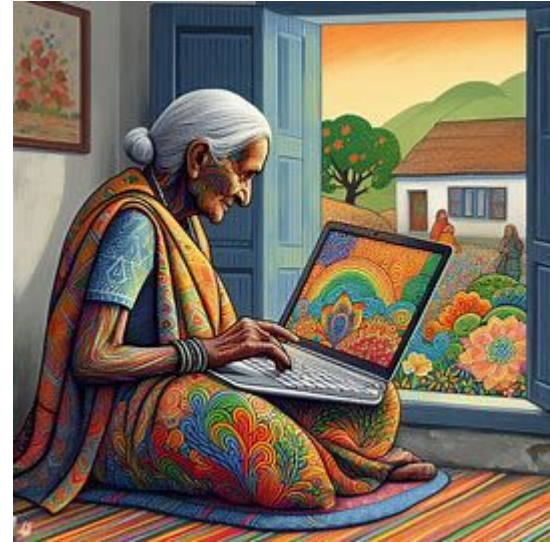
yahoo!finance

WSJ

*“Create paintings of an old woman using computer in the styles of < >” to
copilot.microsoft.com*



Jamini Roy



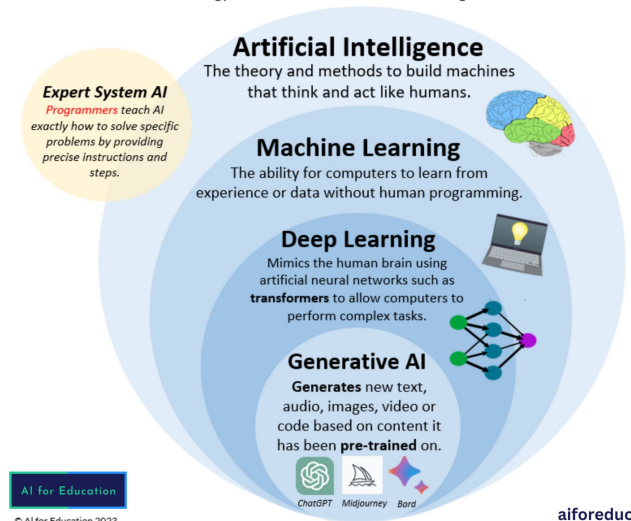
Amrita Sher-Gil

So, What is Generative AI?

- Subset of AI using ML to generate new creative content
- Learning from data patterns
- Produces outputs like art, music, literature
- Provides tools for creative exploration
- Challenges notions of creativity
- Blurs human vs machine lines
- Reshapes creative industries
- Opens new possibilities

Defining Generative AI

To understand generative artificial intelligence (GenAI), we first need to understand how the technology builds from each of the AI subcategories listed below.



Redefining Artistic Expression

- Offers artists novel generative tools
- Sparks unconventional creative ideas
- Challenges authorship assumptions
- Blurs original vs AI-generated
- Human creativity vs machine creativity
- Raises questions on value of art
- Art marketplace disruptions likely



Music Composition and Innovation

- Generates melodies, harmonies, rhythms
- Enables genre exploration
- Empowers composers
- Wave of innovative music expected
- Might expand musical vocabulary
- Traditional music roles affected
- Streaming impacts anticipated



AI Music Composition Tools

- Magenta, MuseNet, AIVA, WaveNet
- Tools for sound design, licensing, concerts
- AI accompaniment and improvisation
- Automated music journalism
- Retail merchandising innovations
- Accessibility improvements



Design and Architecture Evolution

- Paradigm shift in design workflows
- Automates repetitive design tasks
- Generates countless design options
- Enables rapid iteration
- Optimizes efficiency and aesthetics
- Empowers designer creativity



AI in Architecture

- Generative design tools
- BIM integration with AI capabilities
- Parametric modelling exploration
- Analysis for materials, structures
- Sustainability optimizations
- VR/AR enhancements



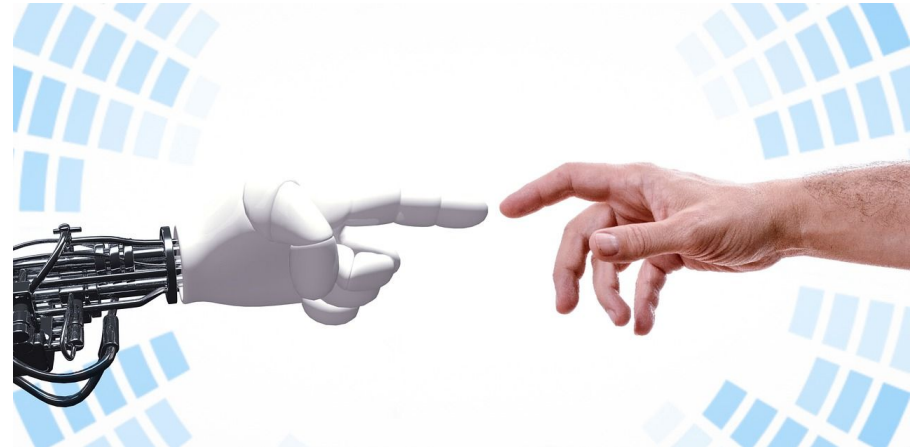
Storytelling Possibilities

- Offers exponential narrative options
- Explores creative plotlines and characters
- Enables boundary pushing structures
- Captivating, evolvable storyscapes
- Mixed media integrations



Enhancing Collaboration

- Fosters human-AI generative synergies
- Unique innovating from interactions
- Co-creation and harmonious fusion
- Best of both machine and human
- Trust and transparency important



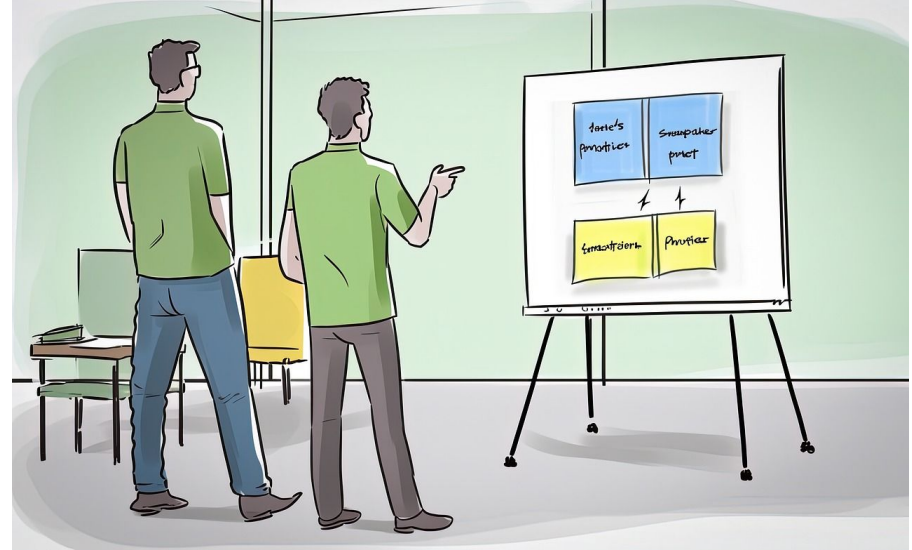
Personalization

- Analyzes user preferences and behaviors
- Tailors content for customization
- Improves audience targeting
- Maximizes engagement and satisfaction
- Establishes two-way connections



Efficiency and Productivity

- Automates repetitive creative tasks
- AI handles time-intensive work
- Frees up creative focus time
- Translates to greater productivity
- Enables higher quality and quantity



Ethical Considerations

- Intellectual property questions
- Copyright and ownership debates
- Transparent AI capabilities info
- Responsible and ethical integration
- "Ethics by design" initiatives
- Deepfakes and misinformation
- Intellectual property questions
- Copyright and ownership debates
- Transparency controls needed



Marketing Applications

- Automated content generation at scale
- Blog posts, social media, web copy
- Improves SEO and advertising
- Enhances personalization



Business Model Disruptions

- New competitors emerging
- Pressures on creative industries
- IP protection complexities
- Subscription model opportunities



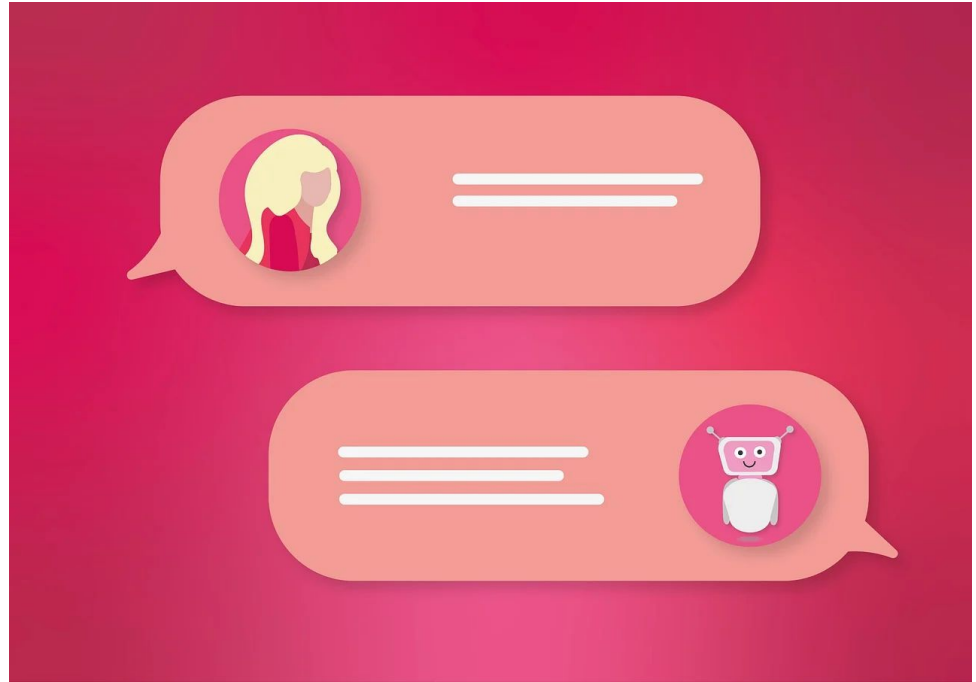
Code Generation

- Tools like GPT-3's Codex and GitHub Copilot
- Effective for code snippets
- Identifies and fixes bugs
- Explains what code is doing
- Increases developer productivity
- Facilitates prototyping

```
43 <body <?php body=...></div>
44 <div id="fb-root"></div>
45 <script>(function(d, s, id) {
46     var js, fjs = d.getElementsByTagName(s)[0];
47     if (d.getElementById(id)) return;
48     js = d.createElement(s); js.id = id;
49     js.src = "//connect.facebook.net/en_US/sdk.js#xfbml=1&version=v2.6&appId=29804488117";
50     fjs.parentNode.insertBefore(js, fjs);
51 })(document, 'script', 'facebook-jssdk');</script>
52 <div id="page" class="site">
53     <a class="skip-link screen-reader-text" href="#content"><?php esc_html_e( 'Skip to content', 'urbatube' ); ?></a>
54
55     <header id="masthead" class="site-header" role="banner">
56         <div class="site-branding">
57             <div class="navBtn pull-left">
58                 <?php if(is_home() && $xpanel['homepage-style'] == 1) { ?>
59                     <a href="#" id="openMenu"><i class="fa fa-bars fa-3x"></i></a>
60                     <?php } else { ?>
61                         <a href="#" id="openMenu2"><i class="fa fa-bars fa-3x"></i></a>
62                     <?php } ?>
63                 </div>
64                 <div class="logo pull-left">
65                     <a href="<?php echo esc_url( home_url() ) ?>">
66                         
68                 </div>
69                 <div class="search-box hidden-xs hidden-sm pull-left ml-10">
70                     <?php get_search_form(); ?>
71                 </div>
72                 <div class="submit-btn hidden-xs hidden-sm pull-left ml-10">
73                     <a href="<?php echo get_page_link($xpanel['submit-link']) ?>" class="header-submit-btn"><i class="fa fa-search fa-3x"></i></a>
74                 </div>
75                 <div class="user-info pull-right mr-10">
76                     <?php
77                     if ( is_user_logged_in() ) {
78                         <?php echo $xpanel['user-logged-in']; ?>
79                     }
80                 </div>
81             </div>
82         </div>
83     </div>
84 </div>
```


Conversational AI

- Tools for dialog like BlenderBot
- Language models like BERT
- Contextual understanding
- Conversational consistency



Knowledge Management

- Captures institutional knowledge
- Accessible via prompts
- Enables scaling expertise
- Automates content generation



Challenges in Traditional Roles

- Questions traditional creative roles
- Artists/designers reevaluating positions
- Need to balance AI as tool
- Preserving human authenticity



The Future

- Research on human-AI collaboration
- Cross-domain applications
- Audience behavior impacts
- Industry ethics guidelines
- Transformative creative force
- Responsible embracement essential
- Innovative human-AI harmony future



Thank you!!

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