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      November 2022. ChatGPT became a \"viral\" sensation and the fastest to
      reach 100 million monthly active users within just two months after
      launch! [1] This remarkable success sparked a surge of funding for
      Generative AI startups [2] and triggered the exploration of numerous
      applications across various sectors.\n",
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      "***Figure 1: The trends of the cumulative numbers of arXiv papers
      that contain the keyphrases \"large language model\" (since October
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allow users to create a variety of new content across different
modalities such as text, images, audio, video and code. Generative AI
learns from large-scale training datasets and creates new content based
on the training set [4] [5] \n",
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  "**Figure 2: Summary of the generative AI application landscape**
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which is trained on a vast amount of text data. LLMs are designed to
generate human-like text output. \n",
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  "**Figure 3:A timeline of existing large language models (having a
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  "LLMs are a subset of Generative AI\n",
  "\n",
  "| Aspect | Large Language Model (LLM)
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  "|-----|-----
-----| \n",

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" Focus	Primarily focused on generating text
Encompasses various AI generative methods such as text, images, audio, video, and code	"\n",
" Function	Generates context-aware responses to text requests ("prompts")
	Creates new content, designs, or media
" Input	Relies on input text prompts or queries
May require specific input data or parameters	
" Training	Trained on vast amounts of text data
Trained on diverse datasets or specific domains such as text, images, audio, video, and code	
" Output Diversity	Limited in terms of generating diverse responses in text
Capable of producing varied and novel outputs across modalities such as text, images, audio, video, and code	
" Use Cases	Chatbots, language translation, content generation Art, music, video synthesis, image generation , text
" Examples	ChatGPT, Google BERT, Falcon, Llama
DeepDream, StyleGAN, OpenAI DALL·E, Stable Diffusion , ChatGPT, Google BERT, Falcon, Llama	

"\n",
"Source: Author \n",
"\n",
"Also, we are seeing the advent of multimodal LLMs which are able to process multiple types of data including images and text, or a combination of them. As Generative AI are a vast topic, we will *focus primarily on LLMs* in this essay going forward."

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  "1. Transformers: LLMs are built using the transformer
architecture, which has revolutionized the field of natural language
processing (NLP). Transformers introduced attention mechanisms that
enable models to capture complex relationships and dependencies between
words in a text. The biggest advantage of Transformers was that it allows
for parallel computation and reduces training time as compared to RNN and
LSTM which are sequential models. This enabled language models to scale
to larger models and train more easily on vast datasets. "Transformers
made self-supervised learning possible, and AI jumped to warp speed,"
said NVIDIA founder and CEO Jensen Huang [7a]\n",
  "\n",
  "**Figure 4: The Transformer - model architecture**\n",
  "\n",
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  "Source: Ashish Vaswani et al (2017) [7b]\n",
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  "2. Reinforcement Learning from Human Feedback (RLHF): LLMs have
benefited from reinforcement learning techniques. By utilizing reward-
based systems, LLMs can fine-tune their generated outputs to align with
desired behaviours or objectives. However, sometimes their output may not
be accurate or aligned with what we humans expect. RLHF helps address
this issue by incorporating human feedback to fine-tune the LLMs'
generated outputs.\n",
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  "**Figure 5: Fine-tuning with RLHF**\n",
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  "Source: Nathan Lambert et al (2022) [8]\n",
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makes it look like both models generate different responses for the same
prompt, but what really happens is that the RL policy generates text, and
that text is fed into the initial model to produce its relative
probabilities for the KL penalty.\" \n",
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  "  <h3>Large Parameter Models</h3>\n",
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"\n",
"3. Large Parameter Models: The overparameterization regime is a
counterintuitive development in the field of deep learning.
Traditionally, overfitting was a significant concern in ML models. If a
model had too many parameters, it would often memorize the training data,
leading to a poor generalization of unseen data. However, the latest
research suggests overparameterization improves output in Generative AI
including LLMs! GPT4 is rumoured to have between 1 to 100 trillion
parameters [9a, 9b]\n",
"\n",
"Figure 6: Benefits of Large Parameter Models\n",
" \n",
" \n",
" Source: Modern Era of Statistics, Vandaurd (2023) [10]\n",
"\n",
" \n",
" Figure 7: How Image Generation Quality Improves with the Number
of Parameters\n",
" \n",
" Prompt: A green sign that says \"Very Deep Learning\" and is at
the edge of the Grand Canyon. Puffy white clouds are in the sky.\n",
"\n",
" Source: Jiahui Yu et al (2022) [11]\n",
" \n",
"<div style=\"background-color: #f5f5f5; padding: 10px;\">\n",
" <h3>Emergent Properties</h3>\n",
"</div>\n",
" \n",
"\n",
"Research suggests that \"overparameterization always improves
minority group performance\" [11a] . Buhai et al (2019) [11b] show that
\"overparameterization is beneficial and impervious to a variety of
changes in the settings of the learning algorithm\"\n",
"\n",
"4. Emergent Properties: \"An ability is emergent if it is not
present in smaller models but is present in larger models\" [12]. These
properties and abilities may not be predicted or extrapolated from
smaller models. As a result, there is a lot of ongoing research on
\"whether additional scaling could potentially further expand the range
of capabilities of language models.\"[12]. While LLMs are trained only to
predict the next word using Reinforcement Learning, the large scale of
models creates multiple emergent abilities such as mathematics and
logical reasoning which the models have not been explicitly trained
for.\n",
" \n",
"Table 2: List of emergent abilities of LLMs and the scale (both
training FLOPs and number of model parameters) at which the abilities
emerge.\n",
" \n",
"\n",
" \n",
" Source: Jason Wei et al (2022) [12]\n",
"\n",
" \n",
"In summary, transformers helped language models to scale. RLHF aided
improve output quality. Large scale and overparameterization led to
emergent properties which we are still discovering. \n",
" \n",

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"Given the overwhelming promise of LLMs, how may we use these capabilities u and applications of LLMs? Let us discuss this in the next section.\n"

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    "Generative AI has been used for art. An AI-generated painting won the [1st Prize in a US State Competition] (https://www.theverge.com/2022/9/1/23332684/ai-generated-artwork-wins-state-fair-competition-colorado) [13]. An AI generated photograph also [won a Prize at Sony World Photography Award 2023] (https://www.bbc.com/news/entertainment-arts-65296763) [14].\n",
    "\n",
    "\n",
    "Books written by ChatGPT and other LLMs [have flooded Amazon] (https://www.reuters.com/technology/chatgpt-launches-boom-ai-written-e-books-amazon-2023-02-21/)! [15] The rush of LLM-generated content has overwhelmed publishers such as [ClarksWorld] (https://www.npr.org/2023/02/24/1159286436/ai-chatbot-chatgpt-magazine-clarkesworld-artificial-intelligence) and they have stopped taking new submissions. [16]\n",
    "\n",

```

"Besides art and writing, these are used as code assistants, for copywriting and content creation, for customer support, as e-mail assistants as well as legal assistants [17] [18]. \n",

"\n",

"While there are multiple use cases of Generative AI and LLMs, how can LLMs be used for social & public good? We explore these areas with a specific focus on India.\n"

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"There are many initiatives from the public and private sectors for social good that have been initiated. We list some of the use cases below:\n",

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"<h3>Agriculture</h3>\n",

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"\n",

"1. **Agriculture**: LLMs can be utilized in agriculture-related applications to offer personalized recommendations to farmers, optimize resource usage, and combat crop diseases.\n",

"\n",

"a. ****Kissan AI****: Startups like Kissan AI leverage LLMs to address agricultural challenges, empower farmers and enhance agricultural productivity using voice-based Indian local language interactions. KissanAI supports nine Indian languages - Gujarati, Marathi, Tamil, Telugu, Kannada, Malayalam, Punjabi, Bangla, and Hindi, with plans to add Assamese and Odia soon. A farmer can speak out his or her concern in their language and get a voice response generated by LLM.\n",

"\n",
"****Figure 8: Kissan AI: Digital Assistant for Farmers in Indian Regional Languages****\n",

"![] (https://i.postimg.cc/3wSLb82t/image.png)\n",

"\n",

"Source: kissan Ai [19]\n",

"\n",

"b. ****Ama KrushAI****: The Odisha state government has launched Ama KrushAI [20] at the 'Krushi Odisha 2023' to assist farmers with the best agronomic practices and provide them with information about various government schemes and loan products from over 40 commercial and cooperative banks. Under a pilot project involving more than 10,000 farmers, Ama KrushAI aims to promote agriculture and help the state get better information regarding government initiatives. \n",

"\n",

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"<h3>Healthcare</h3>\n",

"</div>\n",

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"\n",

"\n",

"2. ****Healthcare****: LLMs can aid in medical diagnosis, drug discovery, and patient support. Virtual assistants powered by LLMs can provide immediate and accurate responses to healthcare-related queries enabling access to reliable information. India has 0.77 doctors per 1,000 citizens vs 1.5 to 3.5 doctors per 1,000 citizens for developed countries. [24] These applications can address common medical concerns, offer initial diagnoses, and provide relevant health advice to citizens, especially in remote or underserved areas. \n",

"\n",

"a. ****Dr Gupta & Dr McGrath****: An American startup has created an LLM-based doctor, Dr Gupta [21], and vet, Dr McGrath [22], which aims to provide reliable medical information, answer queries, and assist in online medicine consultations. In New York, LLMs saved a dog's life after an improper diagnosis by the vet [23]. \n",

"\n",

"\n",

"****Figure 9: Digital Health Assistant****\n",

"![] (https://i.postimg.cc/HsQnNWSx/image.png)\n",

"\n",

"Source: Dr Gupta AI\n",

"\n",

"Applications such as Dr Gupta and Dr McGrath aid doctors in remote parts of India who may need a second opinion. These should aid and complement eSanjeevani, a telemedicine effort by the Government of India's Health Ministry which is serving in two streams (Doctor to Doctor & Patient to Doctor).\n",

"\n",

"b. ****LLMs for ASHA workers****: India has more than one million accredited female health workers as part of the Accredited Social Health Activist (ASHAs) scheme. Recipients of the Global Health Leaders Award

[25], these health workers are the backbone of healthcare support in rural India. ASHAs ensure primary health care services and support maternal care and immunization for children against vaccine-preventable diseases; tuberculosis, neglected tropical diseases, communicable disease prevention and control; and core areas of health promotion for nutrition, sanitation, and healthy living. There are efforts to build co-pilots and LLMs based health assistants for ASHA workers to enable them to get better information and insights in case of emergencies.\n",

"\n",

"\n",

"LLMs can be used to analyze patient data and medical literature to assist doctors in diagnosing diseases. We may soon enter a world of predictive medicine and healthcare which can limit impact of diseases to even the marginalised sections of society.\n",

"\n",

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"<h3>Education</h3>\n",

"</div>\n",

"\n",

"\n",

"3. **Education**: LLMs can assist in providing personalized tutoring, answering student queries, and generating educational content.\n",

"\n",

"a. **Tuition GPT**: LLMs can be employed in the field of education to provide personalized tutoring and assistance. By leveraging LLMs, an engineer in Bengaluru has trained the LLM on official NCERT textbooks from Grade 6 to Grade 10 used by the Central Board of Secondary Education (CBSE), India [26]. This provides an opportunity for students and parents to offer customised learning for their children. \n",

"\n",

"**Figure 10: Tuition GPT - Your personal AI school tutor**\n",

"\n",

"\n",

"\n",

"Source: Tuition GPT [26]\n",

"\n",

"b. **Khanmigo**: Khan Academy is leveraging LLMs to provide one-on-one tutoring with better understanding and empowerment—to all students. They have developed "**Khanmigo**" [27]. Khanmigo has a unique methodology - it does not straight away provide the solution but nudges the student to think of the approach. This ensures that students develop the ability to solve problems and do not have the illusion of competence. \n",

"\n",

"\n",

"LLMs can be used to create adaptive learning materials that adjust to the learner's pace and level of understanding. We look forward to a world where each student can learn at his or her own pace using LLMs!\n",

"\n",

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"<h3>Citizen Service Delivery</h3>\n",

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"4. **Citizen Service Delivery using Bhashini**: LLMs can be harnessed to improve citizen service delivery by providing automated assistance in regional languages like Bhashini[28]. This would enable

businesses to effectively communicate with a broader customer base, enhance user satisfaction, and bridge the language gap.\n",

"\n",

"**Figure 11: Citizen Service Delivery using Bhashini**\n",

"![] (https://i.postimg.cc/5tZSYnm/image.png)\n",

"\n",

"Source: Author\n",

"\n",

"We are seeing developments in this space. We recently came across \n\"Jugalbandi\n\" which is \n\"utilizes ChatGPT and Bhashini for Indian language translation to enable conversational AI for Indian citizens [28b]. This app is available in a chatbot format with Whatsapp and Telegram and aids in the verbal response to questions regarding government schemes for Indiabs. The product takes the details from the Indian Government's Myscheme website and enables citizens to learn about \n\"121 government schemes in 10 Indian languages.\n\"\n",

"\n",

"**Figure 12: Jugalbandi**\n",

"![] (https://i.postimg.cc/SQJrVXS8/image.png)\n",

"Source: Jugalbandi [28b]\n",

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"We are confident efforts like these will help improve access to government services to all citizens.\n",

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  "1. Language Diversity: English is understood by less than 12% of
the Indian population [29]. India comprises 122 major languages and 1,599
minor languages, as per the Census of India of 2001. India has 22
official or \"scheduled\" languages [30]. While LLMs perform well in
English, its accuracy drops significantly for Indian languages. For
instance, ChatGPT3 is unable to write in my mother tounge, Odia, the
state lanaguge of Odisha. There are over 35 million people with Odia as
their native/mother tounge. We highlighted ChatGPT4's low level of
accuracy for Indian langauges in the Table below. This language barrier
restricts the widespread adoption of current LLMs in India.\n",
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  Table 3: ChatGPT4 does not perform well in Indian regional
Langauges\n",
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  "Note: Indian regional languages are highlighted in yellow\n",
  "\n",
  "Source: https://arxiv.org/pdf/2303.08774.pdf\n",
  "\n",
  "\n",
  "The Government of India's National Language Translation Mission [31]
is an effort to tackle this issue. On this front, India is developing
Bhashini [28] as \"a National Public Digital Platform for languages to
develop services and products for citizens by leveraging the power of
artificial intelligence and other emerging technologies.\" Our initial
experiments have shown that Bhashini is better at translation and
text/speech conversions than ChatGPT4 and other LLMs. The government is
working to build a more robust database of text in various Indian
languages. This effort includes collaborations with universities and
research institutions as well as general publci and should help develop
language models that cater to the linguistic diversity of India.The
integration of Bhashini with LLMs should help make them more usable for
the majority of Indian citizens.\n",
  "\n",
  "<div style=\"background-color: #f5f5f5; padding: 10px;\">\n",
  "  <h3>Your Heading Text</h3>\n",
  "</div>\n",
  "\n",
  "\n",
  "2. Voice-Based Interfaces: India has 287 million illiterate
adults accoring to UNESCO [32]. Also, many of the marginalised sections
are not comfortable typing in their phones. This makes voice-based
interfaces crucial for effective communication. Many current LLMs do not
offer voice functionality. Integrating LLMs with regional languages using

```


text-to-voice and voice-to-text can help bridge the literacy gap and facilitate broader adoption. Bhashini offers text/speech conversions between various Indian regional languages and English.\n",

"\n",

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"<h3>Cost Considerations</h3>\n",

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"3. **Cost Considerations**: India has been at the forefront of using National Public Digital Platforms for social good. India has spearheaded the use of LLMs and GPT for use by citizens for the delivery of government benefits to all corners of the country. This was highlighted by [Microsoft CEO Satya Nadella in Davos] (<https://www.weforum.org/videos/satya-nadella-on-how-chatgpt-is-helping-villagers-in-india>) [33]. The cost associated with deploying LLMs, such as ChatGPT, to a country with a population of 1.4 billion can be a hindrance to widespread adoption, especially in resource-constrained settings. As a result, the focus must be on free and open-source LLM frameworks that can alleviate this issue and encourage greater accessibility.\n",

"\n",

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"<h3>Privacy Concerns</h3>\n",

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"\n",

"4. **Privacy Concerns**: Privacy is a significant concern when dealing with LLMs. For instance, [data from Samsung was leaked when employees used ChatGPT] (<https://www.techradar.com/news/samsung-workers-leaked-company-secrets-by-using-chatgpt>) [34]. There are concerns regarding the use of citizen and government data given privacy and data leaks. Frameworks like [PrivateGPT] (<https://www.privategpt.io>) [35], which redact personal information before sending it to LLMs. Personal information includes "social security numbers, credit card details, names, addresses, and any other data that could potentially compromise privacy.[35a]" They also offer local deployment options, can address these concerns and build trust among users.\n",

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"<h3>Dynamic Landscape and Evaluating Performance</h3>\n",

"</div>\n",

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"\n",

"5. **Dynamic Landscape and Evaluating Performance**: The field of open-source LLMs is in a state of constant evolution and flux, with new models coming up every week. This dynamic landscape, while exciting for researcher and AI enthusiasts, also presents challenges in terms of performance evaluation especially for government leaders aiming to implement these. \n",

"\n",

"There are also varied claims on the superiority of the LLMs. \"The mere indication of \"MMLU results\" gives you little to no information about how you can compare these numbers to others you evaluated on another library.\" [highlights HuggingFace and notes the difficulty in comparing various LLMs] (<https://huggingface.co/blog/evaluating-mmlu-leaderboard>) [36]. \n",

"\n",

"As a result, some officials take solace from the book, \"Does IT Matter?\" by Nicholas Carr, the adoption of digital technologies creates short-term advantages within a sector, but these advantages decline as such technologies become the standard in the industry such as text editors, spreadsheets, and customer relationship management (CRM) systems. Therefore, there is reluctance to adopt specific LLMs given its early days and one is unsure of the best approach.\n",

"\n",

"**Table 4: Results of Open Source LLMs scores on 3 possible ways to evaluate using Massive Multitask Language Understanding (MMLU)**\n",

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"6. **Hallucinations**: Another significant drawback of LLMs is that they make mistakes in the generated text that are semantically or syntactically plausible but are incorrect or nonsensical which are referred to as \"hallucinations\". [37] In other words, the users may be provided with the wrong information which may appear and sound correct. From a government and social good perspective, this is a major concern.\n",

"\n",

"\n",

"As a result, while [India-centric LLM was announced by the Government](<https://www.livemint.com/news/india/big-announcement-union-minister-of-it-and-communication-ashwini-vaishnaw-on-india-s-version-of-chatgpt-11679914989972.html>) [38] in March 2023 during the India Global Forum Annual Summit, the above-mentioned concerns have delayed it.\n",

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      "Generative AI, especially Large Language Models (LLMs), have gained significant attention since the launch of ChatGPT. The rise of LLMs has demonstrated their capabilities, sparking a surge of innovative applications across various sectors. LLMs can contribute to social good by enabling personalized education, healthcare support, agricultural advancements, and addressing societal challenges.\n",
      "\n",
      "Harnessing LLMs is challenging, particularly in India where there are obstacles related to language diversity beyond current LLM capabilities, need for voice-based interfaces, cost, and privacy concerns. Despite these challenges, LLMs have the potential to improve agriculture, healthcare, education, and citizen services. India's vast population and diverse needs make it an ideal candidate for leveraging these technologies to achieve widespread positive impact. Initiatives like the National Language Translation Mission by the Government of India and the development of Bhashini are promising strides towards making LLMs more accessible and user-friendly for the majority of Indian citizens.\n",
      "\n",
      "As we continue to explore Generative AI and LLMs, it's crucial to balance their limitations with their potential for societal good. The journey has just begun, and the horizon is filled with vast and exciting possibilities. With ongoing research, innovation, and mindful application, LLMs can become critical instruments for societal progress in India and beyond. \n",
      "\n",
      "In conclusion, by addressing these challenges and leveraging the power of LLMs, India can harness the potential of Generative AI and LLMs for social good and drive positive impact across different sectors of society."
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