

# THE RISE OF IND A'S 024





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Decoding The AI Strategy Of India's Top-Tier Listed Enterprises

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#### Decoding Generative AI Startup Ecosystem In India

- India's GenAl Landscape
- GenAl Funding Trends
- Investors Actively Backing Al Startups
- India's GenAl Startup Investor Survey 2024
- **Growth Drivers**
- Key Challenges
- Methodology
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### India To Have 900 Mn+ Active Internet Users By 2025

By 2025, 56% of new internet users in India will come from rural areas, with females making up 65% of this influx



Source: IAMAI, Inc42 Analysis

Inc42



### The State Of Indian Startup Economy

#### **3rd**

Largest Startup Ecosystem In The World

### 118

Indian Unicorns, Only Behind The United States & China

#### \$7 Bn+

**Total Startup Investment At** Seed Stage

Source: Inc42 Note: Based on Indian startup funding deals recorded between January 2024 and September 2024.

### 70K+

Number Of Tech Startups Launched

#### \$154 Bn+

**Total Funding** Raised Since 2014

### \$38 Bn+

**Total Startup** Investment At Growth Stage

#### \$107 Bn+

**Total Startup Investment At** Late Stage



# **The Evolution Of Artificial Intelligence**

#### **1990s: The Rise Of ML & Expert Systems**

- ► Rapid rise in the development and industrial applications of machine learning algorithms
- ▶ The mid-1990s marked significant progress in natural language processing (NLP)
- ▶ In 1994, human-like spontaneous speech recognition was achieved
- ► IBM's Deep Blue defeated chess grandmaster Garry Kasparov in 1997

#### 2000s: The Dawn Of **Data-Driven Al**

- ► In 2001, Google began using statistical machine learning to identify spam and enhance spelling suggestions for users' web searches
- In 2002, the launch of Roomba, the robotic vacuum cleaner, introduced Al into everyday household tasks
- The 2007 DARPA Urban Challenge greatly accelerated advancements in autonomous driving

#### 2010s: Deep Learning & **Al Renaissance**

- AlexNet, a groundbreaking Convolutional Neural Network (CNN) introduced in 2012, paved the way for modern deep learning models in computer vision
- In 2011, IBM Watson triumphed over Jeopardy! champions Brad Rutter and Ken Jennings.
- Apple acquired Siri, a virtual assistant utilising Al for speech recognition and natural language processing (NLP).
- In 2015, DeepMind's AI learned to play Atari games at a human-expert level, using only the game's visuals (pixels) and score as input
- ► The paper "Attention Is All You Need" by Google researchers introduced the Transformer architecture, revolutionising how neural networks process information

#### 2020s: Generative AI & **Multimodal Learning**

- Open Al launched ChatGPT-3 for the public in November 2022.
- To capitalise on the booming generative AI market, Google introduced its powerful LLM, Bard, in 2023
- Microsoft invested \$10 Bn in OpenAl to further solidify their partnership
- ► IMeta launched LLaMA in 2022 an open source generative AI model for developers.
- LangChain was launched as an open-source framework designed to simplify the process of building applications powered by LLMs
- Rabbit Inc. introduced Large Action Model (LAM) based device "R1" capable of using AI agents to plan and executive tasks like trip planning, cab booking etc





### The 2020s: Where AI Takes The Leap From Science Fiction To Fact



Source: Our World In Data, Inc42 Analysis





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# **Understanding Generative Artificial Intelligence (GenAI)**

### What Is Generative Artificial Intelligence (GenAI)?

Generative AI is a specialised branch of deep learning that utilises various models, including Large Language Models (LLMs) and Generative Adversarial Networks (GANs), to create new and original content that closely resembles or is inspired by its training data. GenAl can generate content across multiple formats, such as text, images, music, and code.

### **Popular Types Of GenAl Models**

- Generative Adversarial Networks (GANs)
- Transformer-based Models
- Recurrent Neural Networks (RNNs)
- Variational Autoencoders (VAEs)
- Deep Reinforcement Learning
- Autoregressive Models

Source: Inc42, Michael Miao (Image Credit)

**Artificial** Intelligence **Machine** 

> Deep Learning

Learning

**Generative AI** 





# **Understanding Generative Artificial Intelligence (GenAl)**





### How Artificial Intelligence Is Shaping The Fifth Industrial Revolution



Source: Research paper by Xiao Chen (Technical University of Denmark), Inc42 Analysis



### The Global Artificial Intelligence Business Ecosystem



Source: Inc42

character.ai	Hugging Face	ANTHROP\C





















# A Comparative Look At Top Generative Al Models

GenAl Models	Method	Strengths	Weaknesses	Applications
Generative Adversarial Networks (GANs)	Two competing neural networks: generator (creates data) and discriminator (evaluates real vs. generated)	Can create highly realistic and creative data	Training can be unstable, requires careful balancing of networks	Image/video generation, creative content creation, data augmentation
Transformer-based Models	Encode and decode information using attention mechanism	Powerful for complex language tasks, good at handling long sequences	High computational cost, limited interpretability	Machine translation, text summarization, question answering
Recurrent Neural Networks (RNNs)	Process sequential data, maintaining an internal memory	Effective for tasks with sequential dependencies	Can struggle with long-term dependencies	Speech recognition, text generation, sentiment analysis
Variational Autoencoders (VAEs)	Encode data into a latent space and reconstruct it	Captures underlying structure of data, useful for anomaly detection	Information loss during encoding/decoding, less efficient for complex data	Anomaly detection, image compression
Deep Reinforcement Learning	Agent interacts with environment, learns through trial and error	Achieves superhuman performance in complex games	Requires defining rewards and environment, slow learning process	Robotics, game playing, self-driving cars
Autoregressive Models	Predict next element in a sequence based on previous elements, one element at a time	Efficient for generating coherent text	Can be slow for long sequences, prone to errors	Text generation, music composition, language modeling

Source: Inc42 Analysis, Secondary Sources

Note: This table does not include an exhaustive list of applications and model types.



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## The Generative Artificial Intelligence (GenAI) Value Chain



Source: Inc42

Note: This representation includes both international and domestic organisations This is not an exhaustive list of all the players in the ecosystem



### The Future Of GenAl In India: A \$17 Bn+ Market Opportunity Awaits



Source: Inc42 Analysis, Secondary Sources

Note: The market size indicated here represents the revenue potential for companies providing AI/GenAI-related products and services. This estimate is calculated based on India's proportional share of global software product sales for the years 2023 and 2030.

Rising Demand For Al-Powered Consumer Devices: The Indian consumer electronics market is seeing a strong surge in Al-powered devices, including smart speakers, home automation gadgets, and autonomous vehicles. This upward trend is expected to continue, driving increased demand for AI software and hardware across India.

**Dynamic Startup Ecosystem:** India now ranks seventh globally for new Al startups, with over 338 newly funded ventures. Most Indian Al startups focus on applying GenAl technologies in business and consumer application, rather than building infrastructure. Since 2020, these startups have raised over \$1.2 Bn, illustrating a vibrant growth trajectory.

Expanding AI Talent Pool: Upskilling in AI is increasingly popular in India, with everyone from C-suite executives to entry-level employees gaining awareness of AI applications in their work. Recent reports also highlight Bengaluru as home to the world's second-largest AI talent pool, underscoring India's rapid development in AI expertise.











# Artificial Intelligence Takes Centre Stage In Indian Policy Push

Initiatives	Description	Key Objectives & Impact
IndiaAl Mission	The mission is guided by the principle of "AI for AII", emphasising the technology's potential to enhance the quality of life for all Indian citizens whilst positioning India as an AI powerhouse on the global stage. In March 2024, the Indian government approved over INR 10.5K Cr for this mission.	<ul> <li>Developing AI solutions for societal needs in areas like healthcare education, agriculture, and smart cities.</li> <li>Establishing AI research, development, and innovation centers across the country.</li> <li>Addressing ethical concerns and developing responsible AI frameworks.</li> <li>Launch of BharatGen, government funded multimodal LLM whice is being developed by IIT Bombay.</li> </ul>
IndiaAl Compute Capacity	As one of the pillars of IndiaAl Mission. It aims to provide researchers, startups, and industry players with access to high-performance computing resources necessary for Al development and innovation.	<ul> <li>Establish a cutting-edge AI compute infrastructure with 10,000+ Graphics Processing Units (GPUs) built through collaborative public-private collaborations.</li> <li>An innovative AI Marketplace that provides AI as a service and pre-trained models, giving AI innovators easy access to key re- sources.</li> <li>To develop indigenous AI solutions for India's unique needs.</li> </ul>

Source: PIB, IndiaAl Mission, Inc42 Analysis

Note: This is not an exhaustive list of all the government initiatives





Initiatives	Description	Key Objectives & Impact
<section-header></section-header>	A programme launched by the Ministry of Agriculture and Farmers Welfare to promote AI adoption in agriculture, through partnerships with industry, academia, and government.	<ul> <li>To leverage AI for improving agricultural productivity and farmers' income.</li> <li>Kisan e-Mitra: An AI-powered chatbot assisting farmers with PM Kisan Samman Nidhi scheme queries, supporting multiple languages.</li> <li>Established 713+ Krishi Vigyan Kendras and 684+ Agricultural Technology Management Agencies to disseminate farm technologies.</li> </ul>
IndiaAl FutureSkills	IndiaAl FutureSkills is an initiative aimed at developing Al-related skills across India's workforce.	<ul> <li>Removing barriers to AI education by expanding undergraduate, master's, and Ph.D. courses, and establishing Data and AI Labs in Tier 2 and 3 cities.</li> <li>Fostering industry-academia partnerships to align skills training wit market demands</li> <li>Enabling continuous learning in AI through dedicated platforms and resources</li> </ul>

Source: PIB, IndiaAl Mission, Inc42 Analysis Note: This is not an exhaustive list of all the government initiatives





# Generative A In Business







### **Retrieval Augmented Generation (RAG):** Turbocharging Business With Intelligent **Information Retrieval**

**RAG:** Retrieval-augmented generation (RAG) is an AI framework for improving the quality of LLM-generated responses by grounding the model on external sources of knowledge to supplement the LLM's internal representation of information.

#### **Best Practices Of Using RAG In Business**

- **Domain Specific Knowledge:** Fine tune the RAG model with domain-specific information to better handle business-specific terms and use cases.
- Maintain Data Quality: Ensure RAG system data is accurate, relevant, and up-to-date. Regular data updates and a high-quality knowledge base are crucial for reliable assessments.
- **Employee Upskilling:** Provide employees with training on using RAG systems effectively, including navigating the technology and integrating its outputs into daily work.
- Integration With Existing Workflow: Integrate RAG into your existing business processes, whether it's customer support, sales, decision-making, or content generation.







### **Retrieval Augmented Generation (RAG):** Turbocharging Business With Intelligent **Information Retrieval**

#### **Using RAG**

(Retrieval-Augmented Generation)

Access to vast, up-to-date enterprise knowledge

Higher accuracy with real-time data retrieval

Quickly adapts to new information without retraining

Easily scalable with growing knowledge bases

Update knowledge base without model changes







### Key Advantages Of Incorporating Retrieval-Augmented Generation (RAG) In Business

Advantage	Brief	Impact on Business
Accuracy	Accurate responses reduce errors and inaccuracies.	Increased customer trust and loyalty.
**** Enhanced Customer Experience	Tailored experiences and recommendations.	Increased customer retention and loyalty.
Increased	Automation frees up human agents for complex tasks.	Reduced operational costs and improved productivity.
III Scalability	Handle high volumes of customer inquiries.	Improved customer experience and reduced wait times.
Cost Savings	Automation reduces operational costs.	Improved profitability and competitiveness.
Dempliance	Accurate responses ensure regulatory compliance.	Reduced risk of non-compliance and improved brand reputation.
Personalisation	Tailored experiences and recommendations.	Increased conversion rates and customer engagement





### **Edge AI:** Breaking The Latency Barrier

Edge AI: Artificial intelligence at the edge involves running AI algorithms and models locally on devices or systems near the data source. Instead of centralised cloud computing facility or private data centre.

#### **Notable Industries Where Edge AI Can Have Significant Impact**

- Healthcare: Edge AI transforms patient care through instant vital sign analysis, enabling rapid response to emergencies. It powers remote monitoring and predictive health analytics, allowing timely interventions and improving overall healthcare delivery.
- Smart Cities: Edge AI is critical to the development of smart cities since it allows for effective resource management, such as energy and water. Real-time data analysis is used for applications such as traffic monitoring, waste management, and public safety advancements.
- Agriculture: In agriculture, Edge AI can boost the adoption of precision farming by analysing data from sensors and drones to optimise crop yields and resource use. This enables farmers to make data-driven decisions, thereby increasing production and sustainability.
- Security & Surveillance: Edge AI in the security and surveillance sector enables real-time threat detection and response by processing video feeds and sensor data at the edge of the network. This allows for faster identification of suspicious behavior, automatic alerts to security personnel, and optimised camera settings for higher-quality video feeds, ultimately enhancing security and reducing costs.





### **Edge AI:** Breaking The Latency Barrier

#### **Cloud Al**



**Processing Location** Centralised data centres

Connectivity

Requires constant internet connection



 $\overline{\mathbf{\cdot}}$ 

#### Latency

Higher latency due to data transfer



#### **Data Privacy**

Data leaves local environment

### **Scalability**

Highly scalable for complex tasks

Source: Inc42 Analysis, Secondary Sources

#### **Cloud AI vs Edge AI**

#### Edge Al



# Key Advantages Of AI On Edge In Business

Advantage	Brief	Impact on Business
Real-time Processing	Instant data analysis at source	Faster response times, enhanced operational efficiency, competitive edge through rapid insights
Reduced Latency	Minimises delays in data processing	Improved performance in time-sensitive apps, enhanced user experience, increased system reliability
Bandwidth Optimisation	Reduces need for raw data transmission	Lower data costs, improved AI scalability, deployment in limited-band- width areas
Enhanced Data Privacy	Local processing of sensitive data	Better regulatory compliance, reduced breach risks, increased customer trust
Offline Functionality	Operates without constant connectivity	Improved reliability in poor network areas, continuous operation in remote locations, reduced downtime
Cost Optimisation	Reduces cloud and data transfer expenses	Lower operational costs, improved AI ROI, more predictable IT budgeting
Energy Efficiency	Reduces data center energy consumption	Lower energy costs, improved sustainability metrics, better alignment with CSR goals
Customisation & Flexibility	Allows for location-specific solutions	Better adaptability to diverse environments, meets specific industry requirements, increased local innovation potential





# What Are Small Language Models (SLMs)?

**SLMs:** Small language models refer to artificial intelligence (AI) systems that are designed to process and generate human-like language, but with a smaller footprint in terms of model size, computational requirements, and training data.

#### **Key Characteristics of SLMs**

- **Compact Architecture:** Small language models have fewer parameters and require less computational power, making them more efficient and deployable on edge devices or resource-constrained environments.
- Limited Training Data: These models are trained on smaller datasets and can learn from limited labeled data, making them more adaptable to niche domains or applications with limited data availability.
- Focused Capabilities: Small language models are designed to excel in specific tasks, such as conversational AI, text classification, or language translation, rather than attempting to be general-purpose language models like LLMs.
- Efficient Inference: Small language models are optimised for fast inference, enabling real-time processing and response times, which is critical for applications like chatbots, voice assistants, or real-time language translation.





## What Are Small Language Models (SLMs)?

**Small Language Models** 

Lower resource requirements, suitable for edge devices

> Significantly lower energy usage

Faster processing, ideal for real-time applications

Can run locally, reducing data exposure

> \_ower operational costs

Source: Inc42 Analysis, Secondary Sources

#### **Small vs Large Language Models**





# Small Language Models (SLMs): Big Wins For Indian Businesses

Advantage	Brief	Impact on Business
ତ୍ତି Cost 같은과 Effective	Reduces data storage and computational power costs	Reduced operational costs, improved profitability
Edge Deployment	Reduces latency and improves performance	Improved performance, reduced latency in areas with limited internet connectivity
Faster Adaptation	Quickly adapts to changing market conditions and regulations	Improved responsiveness to changing market conditions, enhanced competitiveness
Faster Deployment	Rapid deployment for quick response to market changes	Improved time-to-market, enhanced competitiveness
Improved Security	Reduces risk of data breaches and cyber attacks	Improved data security, reduced risk of cyber attacks
Recessibility	Accessible on low-end devices, reaching a wider audience in India	Improved accessibility, increased market reach
Lower Computational Requirements	Suitable for edge devices or areas with limited internet connectivity	Reduced infrastructure costs, improved accessibility in rural areas
Offline Capability	Functions offline, ideal for areas with limited or no internet connectivity	Improved accessibility in rural areas, enhanced customer experience
Personalisation	Enables personalised experiences for customers in Indian languages and dialects	Improved customer satisfaction, increased loyalty
Real-Time Processing	Enables prompt response to customer queries	Improved customer satisfaction, increased loyalty





# Artificial Intelligence (AI) Agents: Business Operations On Autopilot

Al Agents: An artificial intelligence agent (AI) is a software programme that interacts with its environment, collects data, and uses it to perform self-defined tasks in order to attain human-set goals.

#### **Types Of AI Agents**

- Simple Reflex Agents: A simple reflex agent operates based on Utility-Based Agents: A utility-based agent uses complex reasoning predefined rules and immediate data, responding only to specific to maximise desired outcomes by comparing different scenarios and their utility values. It chooses the option that provides the most rewards, event-condition-action rules. It's suitable for simple tasks that don't allowing users to optimize their goals, such as finding the fastest flight require extensive training. regardless of price.
- Model-Based Reflex Agents: A model-based agent evaluates probable Learning Agents: A learning agent continuously improves its results by outcomes and consequences before deciding, using an internal model of learning from previous experiences, adapting to new data and the world it perceives, built from supporting data. This allows for more feedback. It also generates new tasks to train itself, refining its advanced decision-making compared to simple reflex agents. performance over time to meet specific standards.
- Hierarchical Agents: A hierarchical agent is a multi-tiered system Goal-Based Agents: A goal-based agent evaluates the environment and where higher-level agents break down complex tasks into smaller compares different approaches to achieve a desired outcome, choosing the most efficient path. With robust reasoning capabilities, they're ones, assigning them to lower-level agents. Each agent operates suitable for complex tasks like natural language processing (NLP) and independently, reporting progress to its supervisor, who coordinates and integrates the results to achieve collective goals. robotics applications.



### Artificial Intelligence (AI) Agents: Business Operations On Autopilot

**Al Agents** 

Can make decisions and act independently

Learns and adapts to new situations in real-time

Can work together with other Al agents and humans

Capable of handling complex, multi-step tasks

Can approach problems from multiple angles





## Key Advantages Of AI Agents In Business

Adva	ntage	Brief	Impact on Business
برگر برگر	Autonomous Decision-Making	Agents can make decisions independently, without human intervention, and adapt to changing situations	Increased efficiency, reduced operational costs, and enhanced competitiveness
κÔ,	Real-Time Responsiveness	Agents can respond to events and requests in real-time, providing immediate support and feedback	Improved customer satisfaction, reduced response times, and enhanced business agility
	Personalised Interactions	Agents can tailor interactions to individual customers, employees, or stakeholders, providing a more human-like experience	Increased customer loyalty, improved employee engagement, and enhanced business relationship
	Proactive Problem-Solving	Agents can identify potential problems and take proactive measures to prevent or mitigate them	Reduced risk, improved business continuity, and enhanced reputation
	Continuous Learning and Improvement	Agents can learn from experiences, adapt to new data, and improve their performance over time	Improved decision-making, increased efficiency, and enhanced competitiveness
	Scalability and Flexibility	Agents can be easily scaled up or down to meet changing business needs, and can be adapted to new tasks and environments	Improved resource allocation, reduced costs, and enhanced business agility
	Enhanced Transparency and Accountability	Agents can provide detailed records of their decision-making processes and actions, enabling greater transparency and accountability	Improved regulatory compliance, reduced risk, and enhanced business reputation





### **Responsible AI:** Governance In Artificial Intelligence

**Responsible AI:** Responsible AI involves using artificial intelligence in a way that prioritises human oversight and societal benefit. This means developing and deploying AI models, datasets, and applications ethically and lawfully, without causing harm or perpetuating biases.

#### **Best Practices Of Incorporating Responsible AI In Business**

- > Alignment Of C-Level Leadership: Al governance practices should be closely aligned with an organisation's overarching AI strategy, ensuring that top management's business objectives and responsible AI practices are mutually supportive. A misalignment between these two can undermine the effectiveness of Al initiatives.
- **Risk Management & Monitoring:** Establish a comprehensive governance, risk, and compliance framework to standardise best practices and ensure the systematic monitoring of Al-related activity. It is essential to consider the full lifecycle of an Al-powered system within this framework, encompassing data used for training, AI models, application usage, human impact, and security.
- Agriculture: In agriculture, Edge AI can boost the adoption of precision farming by analysing data from sensors and drones to optimise crop yields and resource use. This enables farmers to make data-driven decisions, thereby increasing production and sustainability.
- **Security & Surveillance:** Edge AI in the security and surveillance sector enables real-time threat detection and response by processing video feeds and sensor data at the edge of the network. This allows for faster identification of suspicious behavior, automatic alerts to security personnel, and optimised camera settings for higher-quality video feeds, ultimately enhancing security and reducing costs.





### **Responsible AI:** Governance In Artificial Intelligence





Organisation	Al Offerings/Use Case	Al Strate
Reliance Industries Limited	Cloud based AI development tools & Data Centres	<ul> <li>RIL is a techno</li> <li>The con "JioBra</li> <li>The con energy.</li> </ul>
	Consulting Services, Sector-specific business tools, Cyber Security	<ul> <li>The con Addition</li> <li>The con knowled techno</li> <li>TCS has e-commercies</li> </ul>

Source: Inc42 Analysis, Company Filings

Note: The top tier enterprises are ranked based on their market capitalisation as of November 7, 2024. The AI strategy of the organisations featured are sourced from their latest AGM and annual reports.

#### egy

- leading champion for the development and deployment of indigenous AI logies in the country.
- mpany is developing a suite of infrastructure-level AI tools under the brand name in" to allow industry and consumer adoption of the technology.
- mpany is building data centres for AI operations that are powered by renewable
- To establish an end-to-end AI development ecosystem in India.
- mpany has formed an "AI.Cloud" division that provides AI- embedded solutions. onally, over 300K employees are trained in AI skills.
- mpany also assists its clients in industries such as BFSI and Retail in implementing a edge-based technology architecture that can enable the usage of AI/GenAI
- logies to improve the efficiency of their business operations.
- as integrated AI into its BFSI core banking suite "TCS BaNCS" and its AI-powered merce platform "TCS OmniStore" that helps retailers manage omnichannel customer ence.





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Organisation	Al Offerings/Use Case	Al Strate
<text></text>	Al-powered banking assistant, Use of Al to enhance customer experience	<ul> <li>HDFC E showca collabou Indian in</li> <li>HDFC B importa was abl</li> <li>The bar executiv resulting</li> </ul>
<b>Øairtel</b>	Al-powered network optimisation, Reducing carbon footprints, Enhancing customer experience	<ul> <li>As of FY its digita</li> <li>Airtel is gy to pir in increa</li> <li>The cor platform</li> </ul>

Source: Inc42 Analysis, Company Filings

Note: The top tier enterprises are ranked based on their market capitalisation as of November 7, 2024. The AI strategy of the organisations featured are sourced from their latest AGM and annual reports.

#### gу

- Ergo has partnered with Google Cloud to set up an AI Centre of Excellence, using how the insurer can leverage AI to enhance customer experience. The ration can position HDFC Ergo as a thought leader in applying AI innovations to the nsurance market.
- Bank has developed a proof-of-concept (PoC) for employing AI technology to extract ant information from credit approval memos (CAMs). Using AI technology, the Bank e to demonstrate a more efficient and successful method of loan assessment. nk has developed an AI-powered assistant prototype to serve as a copilot for branch ves. Once implemented, this can help shorten response times to customer queries, g in more efficient banking operations.
- 724, Airtel had created over thirty commercial use cases using AI technology across al products, including Airtel Cloud, Airtel IQ, and Airtel Payments Bank, among others. using AI/ML technology to reduce carbon emissions. Airtel employs AI/ML technolonpoint and terminate underutilised radios within its telecom infrastructure. Resulting ased operations efficiency.
- mpany has also invested in an Indian startup, "Vahan.ai," which offers an Al-powered n to hire and manage blue-collar workers.







Organisation	Al Offerings/Use Case	Al Strate
Cicic Bank	Al-powered banking assistant, Use of Al to enhance customer experience	<ul> <li>ICICI Barrelation</li> <li>manner</li> <li>ICICI Barrelation</li> <li>ICICI Barrelation</li> <li>ICICI Barrelation</li> <li>Growth-have the have the h</li></ul>
<b>o SBI</b>	AI-powered banking assistant, Use of AI to enhance customer experience	<ul> <li>SBI level YONO E work iss</li> <li>The bar focus of</li> <li>Busines gistic re</li> </ul>

Source: Inc42 Analysis, Company Filings

Note: The top tier enterprises are ranked based on their market capitalisation as of November 7, 2024. The AI strategy of the organisations featured are sourced from their latest AGM and annual reports.

#### gy

ank has introduced an AI-powered virtual relationship manager (VRM). This enables ship managers to cater to customer needs in a more personalised and effective

ank is actively building an ecosystem through strategic partnerships with early and -stage startups. The bank is seeking startups that align with its digital roadmap and e potential to address innovations in financial services.

ne sensitive nature of data, ICICI Bank is taking a more cautious and responsible ch towards incorporating AI technology in its technical infrastructure. A trend that is ed across the BFSI sector.

erages AI to enhance customer experience across its digital platforms YONO and Business. AI helps personalise banking, improve customer service, and identify netsues.

nk is open to partnerships with startups that offer AI solutions, indicating a strategic n leveraging external AI expertise.

ss Rule Engine (BRE): SBI has developed an AI-powered BRE risk model based on logression to predict default events and assess creditworthiness.







Organisation	Al Offerings/Use Case	Al Strate
Infosys	Consulting Services, Sector-specific business tools	<ul> <li>Infosys</li> <li>verse rational</li> <li>Infosys</li> <li>leveragi</li> <li>Infosys</li> <li>leveragi</li> </ul>
Image: Arrow of the second	Brand Marketing, Business Operations, Customer Experience	<ul> <li>Al Integ busines</li> <li>Al techr Smart A with rea</li> <li>ITC use brand 'S</li> </ul>

Source: Inc42 Analysis, Company Filings

Note: The top tier enterprises are ranked based on their market capitalisation as of November 7, 2024. The AI strategy of the organisations featured are sourced from their latest AGM and annual reports.

#### ġу

- Topaz: This platform acts as a primary hub for Infosys' AI capabilities, offering a diange of AI-powered solutions across multiple business functions.
- emphasises collaborations with hyperscalers and startups, indicating a strategy of ing external AI expertise to enhance its offerings.
- assisted Danske Bank in building DanskeGPT, a secure and ethical chatbot assistant, ing generative AI to enhance personal productivity.
- ration across diversified Businesses: ITC's use of AI extends all over its diversified s portfolio, from agriculture to FMCG and education, suggesting widespread use of nologies.
- Agriculture: The ITCMAARS platform uses artificial intelligence to provide farmers al-time information, personalised guidance, and market access.
- d GenAl technology to generate content for its campaign "#hardilkifantasy" for its Sunfeast Dark Fantasy", and "Bingo!".





Organisation	Al Offerings/Use Case	Al Strate
Kirdustar Unilever Cinited	Brand Marketing, Business Operations, Customer Experience	<ul> <li>HUL ain journeys digital c</li> <li>HUL util real-tim</li> <li>HUL use firms su care reg</li> </ul>
<b>ARSEN &amp; TOUBRO</b>	Operational Efficiency, Improve Project Delivery	<ul> <li>L&amp;T has together solution</li> <li>L&amp;T's statechnological data bus</li> <li>L&amp;T Technological data bus</li> <li>L&amp;T Technological data bus</li> </ul>

Source: Inc42 Analysis, Company Filings

Note: The top tier enterprises are ranked based on their market capitalisation as of November 7, 2024. The AI strategy of the organisations featured are sourced from their latest AGM and annual reports.

#### ġу

ns to use AI to improve consumer experiences by personalising omni-channel s, using intelligent data to better allocate resources, and supporting the expansion of commerce.

lises AI to optimize media planning and deployment, leveraging data analytics for e spend optimisation and improved audience targeting.

es AI to personalise consumer experiences across its brands. For example, beauty uch as Lakmé, Pond's, and TRESemmé use AI to deliver personalised skin and hair gimens.

established a dedicated platform to foster Al innovation. This platform brings r data scientists, domain experts, and tech leaders to collaborate on advanced S.

rategic investments in AI, data centers, cloud services, and semiconductor

ogies demonstrate its commitment to embracing emerging tech for future growth siness sustainability.

chnology Services (LTTS's) partnership with Nasscom Gen Al Foundry to support Al s shows its strategy to tap into startup innovation and talent.



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### Key Risks & Challenges In Adopting Generative AI For Business



Attracting and retaining AI talent is challenging due to high global demand, with Indian companies facing competition from international offers.

The high cost of developing and implementing GenAl technology can be a barrier for Indian businesses, especially if short-term ROI is unclear.



Indian businesses often face challenges with data quality and availability, which are essential for training and deploying generative AI (GenAI) models. Poor data quality can lead to biases and inaccuracies in Al outputs.

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#### **Infrastructure & Computational Power**

High computational power and infrastructure are required for GenAl, posing a challenge, particularly for companies in Tier II and III cities where infrastructure may be less developed.

#### **Cybersecurity Risks**

GenAl systems handle vast amounts of data, making them attractive targets for cyber threats. Indian businesses must invest in strong cybersecurity measures to prevent data breaches and cyber-attacks.

#### Cost & ROI





# Generative Al Startup Ecosystem In India





### India's GenAl Startup Ecosystem: Key Statistics

**200+ GenAl Startups In India** 

**\$1.2 Bn+** Total Funding Raised Since 2020

**4.4X** Surge In Cumulative Venture Capital Inflow From 2020 to 2024

63% Of GenAl Startups Operate In Code & Data Segment

**70%** Of GenAl Startups Are Offering Solutions Only For Enterprise Clients

**Bengaluru** Makes More Than One-Third Of The Total Funding

#### **360+** Total Number Investors Actively Backing Native GenAl Startups

Source: Inc42 Note: Funding data is for the period between 2020 and Q3 2024. This analysis is based on a sample set of over 120 VC funded native generative AI startups in India.





### India's GenAl Startup Landscape: Natives Vs Adopters

GenAl Natives			GenAl Adopters		
auraml ClimeChat		PostifyAI	🔆 cult.fit	Flipkart 🙀	
beatoven.ai	<b>E</b> LONGSHOT	Predis.ai	<pre>freshworks</pre>	glance	
- Blend	METABRIX	RagaAl	gupshup	haptik	
<b>CodeMate</b> ®.ai	M OnFinance	Rephrase.ai	Healthify	<b>innovaccer</b>	
	invideo	sarvam	Myntra	NYKAA	
odubdub.ai	kroop Al	<b>b</b> unscript	OLA ELECTRIC	Paytm	
dubpro.ai	<b>O</b> Listnr	<b>vidyo</b> -ai	<b>pepper</b> content	<b>PharmEasy</b>	
Dübverse	meritic.ai	🔷 VisualDub	policy bazaar on har family hogi insured	A Razorpay	
Kombai			<b>SWIGGY</b>	<b>C</b> Vue.ai®	
KRUTRIM Pixis		<b>Zocket</b>		zomato	

Source: Inc42

Note: This is not an exhaustive list.

#### **GenAl Natives:**

Indian startups that have been anchored with Generative AI (GenAI) technology in their products and services from day one.

#### **GenAl Adopters:**

**Established Indian tech** startups that have subsequently integrated GenAl technology into their business offerings, as opposed to those that were founded with GenAl at their core from day one.



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## India's GenAl Startup Application Landscape: Horizontal vs Vertical Solutions

	Audio/ Speech	beatoven.ai dub
	Video	Rephrase.ai
Horizontal Solutions (Sector Agnostic)	Code & Data	₩ੂ≣ OBSERVE∙AI
	Image & 3D Modelling	
	Text & Conversational Al	🕺 gupshup 🛛 🕤 sk
	Fintech/Financial Services	OnFinance
	Ecommerce/ Retail	🔷 avataar  🔊
Vertical Solutions (Sector Specific)	Healthcare	🗱 RedBrick Al S
	Education	SuperKalam
	Robotics	

Source: Inc42 Note: This is not an exhaustive list. This list includes both GenAl natives and adopters.









### **Over \$1.2 Bn Poured Into India's GenAl Startups Since 2020**





Source: Inc42

Note: 2024 data is for the period between January 1 and September 28.

This analysis is based on a sample set of over 120 VC funded native generative AI startups in India.

- One-third of all investments in Indian GenAl startups between 2020 and Q3 2024 occurred during 2022.
- Venture capital investment in India's native generative AI startups has surged, growing 4.4 times from \$277 Mn in 2020 to over \$1.2 Bn by 2024
- Among the top-funded native generative AI startups in India are Pixis, Qure AI, Eightfold AI, and Krutrim















### Over 60% Of India's GenAl Startups Are All About Code & Data



Source: Inc42

Note: Funding data is for the period between 2020 and Q3 2024.

This analysis is based on a sample set of over 120 VC funded native generative AI startups in India.

- Startups offering products in the code and data segments make up nearly two-thirds of all funded GenAl startups in India.
- Key applications in these areas include model fine-tuning, Al-powered report generation, and data orchestration.









## India's GenAl Startups Bet Big on Enterprise Solutions

Over 70% of Indian GenAl startups are only chasing enterprise clients



% of total funded startups

Source: Inc42

Note: This analysis is based on a sample set of over 90 VC funded native generative AI startups in India. Majority of the GenAl startups offering solutions for consumers and individual creators also have an enterprise plan.



Global tech giants like OpenAl, Anthropic, and Al have established strongholds in the consumer application space, making it challenging for Indian startups to break into this segment. As a result, Indian entrepreneurs find greater potential focusing localised, in on solutions enterprise-grade rather than competing in the crowded consumer market.

India's creator economy is on a steep growth trajectory, projected to exceed \$3.9 Bn by 2030. Despite the dominance of global players, localised solutions with competitive pricing are well-positioned to achieve higher adoption among Indian creators compared to their international counterparts.



### Bengaluru Powers India's GenAl Boom With 45% Of Funded Startups



This analysis is based on a sample set of over 120 VC funded native generative AI startups in India.



# **One-Third Of GenAl VC Funding In India Flows To Bengaluru**

Native generative AI businesses in India have raised a total of \$1.2 Bn, with over one-third of this amount \$442 Mn (or 36%) — going to startups headquartered in Bengaluru



Source: Inc42

Note: Funding data is for the period between 2020 and Q3 2024.

This analysis is based on a sample set of over 120 VC funded native generative AI startups in India.





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### **Investors Actively Backing Indian Al Startups**

Investor Name	Investor Type
<b>100</b> UNICORNS	Accelerator/Incubator
	VC Firm
J 30NE4 CAPITAL	VC Firm
Accel	VC Firm
ALLIN	VC Firm
<b>NTLER</b>	VC Firm
VENTURE LABS	VC Firm
Better	VC Firm
BLUME	VC Firm

Source: Inc42

Note: This is not a ranking of any type rather a representation of select notable investors backing Indian AI/GenAI startups. The deal count mentioned is sourced from our internal database and survey titled "Inc42's List Of Most Active GenAl Investors 2024"

Deal Count	Notable Startups Backed
5	Alchemyst Al, Dubpro.ai, vverse.ai
10	Anyway.ai, whitetable.ai, Datavio, gocodeo.com
3	Blend, Fego.ai, Nektar.ai
6	Finbots.Al, Nanonets, Nurix Al, Spyne
7	Segmind, magicstudio.com, suitable.ai
16	figr.design, tradomate.one, plotch.ai, segwise.ai
4	enkryptai.com, RagaAl, daxa.ai, brieflyai.com
5	Autodraft Al, Honestly Al, rapidclaims.ai
5	Agara, Kusho, Segwise, SiftHub



Investor Name	Investor Type
VENTURES	VC Firm
ELEVATION	VC Firm
Endiya	VC Firm
ENTR EPRE NEUR FIRST	Accelerator/Incubator
FIRST/CHEQUE	VC Firm
<b>WGSF</b>	Accelerator/Incubator
HU>>LE	VC Firm
Indian Angel Network <sup>®</sup> Fund	VC Firm/ Angel Network
<b>TIMA</b> VENTURES	VC Firm
<b>IndiaQuotient</b>	VC Firm
IndiaQuotient	VC Firm VC Firm

Source: Inc42

Note: This is not a ranking of any type rather a representation of select notable investors backing Indian AI/GenAI startups. The deal count mentioned is sourced from our internal database and survey titled "Inc42's List Of Most Active GenAI Investors 2024"

Deal Count	Notable Startups Backed
6	Expertia AI, Lightbulb Ai, Locale.ai, Pixis AI
4	drivetrain.ai, factors.ai, murf.ai
5	Myelin Foundry, Expertia.Al, slanglabs.in
5	Beatoven.ai, vidyo.ai, expertia.ai
5	Dubpro.ai, inspektlabs.com, predis.ai
3	we360.ai, param.ai
6	Unstudio, NeuroPixel.Al
5	OnFinance AI, AuraML, Skit Ai, Uniphore
4	kosha Al, axai.ai, Clodura.Al , vphrase.com
3	Llumo AI, Maino.ai
3	Alchemyst AI, LiaPlus Al





Investor Name	Investor Type	
<b>inflexor</b>	VC Firm	
info <b>edge</b> ventures	CVC	
	VC Firm	
IvyCap	VC Firm	
kalaari	VC Firm	
Lightspeed	VC Firm	
MARS SHOT VC	VC Firm	
Nexus venture partners	VC Firm	
<b>P</b> peak xv	VC Firm	
PENTATHLON ventures	VC Firm	
<i><b>pi</b></i> Ventures <sup>®</sup>	VC Firm	

Source: Inc42

Note: This is not a ranking of any type rather a representation of select notable investors backing Indian AI/GenAI startups. The deal count mentioned is sourced from our internal database and survey titled "Inc42's List Of Most Active GenAI Investors 2024"

Deal Count	Notable Startups Backed
3	getayna.com, Vitra.ai
10	Gnani.ai, dview.io
3	subtl.ai, CureSkin
3	Pintel.Al, Beatoven.ai, Expertrons
4	Hyperbots, Convin, Haptik
3	Qure Al, Sarvam Al, Al4Bhārat
5	sifthub.io, Peoplebox.ai
6	Neysa, Observe.Al, Neuron7.ai
4	Sarvam Al, Al4Bhārat, gan.ai
4	Rezolve AI, Spyne AI
4	Pixis, LimeChat, Ai Palette, Raga Al





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Investor Name	Investor Type	Deal Count	Notable Startups Backed
rtp global	VC Firm	3	Agara, InVideo
UNICORN INDIA VENTURES	VC Firm	6	Vodex AI, Boxx AI
Venture Catalysts** India's 1 <sup>st</sup> Multi-Stage VC	Accelerator/Incubator	7	CoRover, plotch.ai, Dubpro.ai
Y Combinator	Accelerator/Incubator	8	Leena Al, Nanonets, Observe.Al, RedBrick Al
Z47 digital nation building	VC Firm	3	GreyLabs AI, SiftHub, Krutrim

Source: Inc42

Note: This is not a ranking of any type rather a representation of select notable investors backing Indian AI/GenAI startups. The deal count mentioned is sourced from our internal database and survey titled "Inc42's List Of Most Active GenAI Investors 2024"





### India's GenAl Startup Investor Survey 2024: Key Highlights

84% Of Indian VCs Prefer Industry-Focused Startups Over General-Purpose **Solutions** 

**Fintech Emerges As The Top Choice For Developing Specialised AI Solutions** 

70% Of Indian VC Firms Have Implemented Generative AI Solutions In Their **Operations** 

65% Of Startup Investors Show A Preference For Backing Early Stage Ventures **Over Growth Or Late Stage Ones** 

Lack Of Skilled Talent Is Seen As The Biggest Challenge For Indian GenAl **Startups** 

**46%** Of Indian VCs Are Pushing For Startups To Focus On Retrieval-Augmented **Generation (RAG) Solutions** 

#### 84% Of Indian VCs Say The Gen Al Funding Boom Is Heavily Driven By FOMO

Source: Inc42 Note: Funding data is for the period between 2020 and Q3 2024. This analysis is based on a sample set of over 120 VC funded native generative AI startups in India.





### Early Stage GenAl Startups: The Investment Of Choice For 65% Of Indian Investors



Source: Inc42 Survey

Note: These insights are based on survey of more than 50 venture capital investors that have backed Indian GenAI startups. Question asked: What stage do you prefer for funding Indian AI/GenAI startups?

65%

- India's GenAl startup ecosystem is still in its early stages. This is evident from the fact that more than 65% of native GenAl startups in India were founded in or after **2020**.
- 75% of all funded native GenAl startups in India are the seed stage. Most investors favour at application-focused businesses (beatoven Al, OnFinance) to infrastructure-focused firms (Ola Krutrim, Sarvam AI).
- The popularity of AI/GenAI applications among Indian consumers and enterprises has increased demand for indigenous chips, particularly those focussing on EDGE and matrix data processing.

60%









### Indian VCs Bet Big On Industry-Specific GenAl Startups Over Horizontal Solutions



Source: Inc42 Survey

Note: These insights are based on survey of more than 50 venture capital investors that have backed Indian GenAI startups. Question asked: Which of these two GenAI segments do you believe holds the most potential in the Indian market over the next decade?

With the proliferation of infrastructure-level and horizontal solutions by global players, Indian investors are showing a stronger preference for domestic GenAl businesses that offer niche, sector-specific solutions.

Vertical Solutions (Sector Specific)





### Fintech Leads The Pack: Indian Investors' Top Choice For Vertical AI Solutions



Source: Inc42 Survey

Note: These insights are based on survey of more than 50 venture capital investors that have backed Indian GenAl startups. The percentage values do not add up to 100 since the responses were not mutually exclusive, multiple selection was enabled Question asked: Which of the following segments do you have the most confidence in for vertical GenAl solutions?

					57%
		46%			
40	%				

The banking and financial services sectors are among those where GenAl technologies are expected to have the most significant impact. Major players like JP Morgan, BlackRock and Bank of America have already started integrating GenAl solutions into their operations.





### Indian VC Firms Embrace GenAI: 70% Already Using AI Solutions For Business Operations



Source: Inc42 Survey

Note: These insights are based on survey of more than 50 venture capital investors that have backed Indian GenAl startups. Question asked: As an organisation are you officially using any GenAl-based products/services in your business operations?

Indian Startup Investors

Yes 70%

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### Fear Factor: 84% Of Indian VCs See GenAl Investment Boom As FOMO **Fueled**



Source: Inc42 Survey

Note: These insights are based on survey of more than 50 venture capital investors that have backed Indian GenAI startups. Question asked: On a scale of 1 to 10, how would you rate the extent of FOMO-driven investment in India's AI/GenAI startup ecosystem?

84%

Startup funding in native Indian GenAl startups increased 4.4X times in 2024 compared to 2020. This indicates that Indian startup investors are optimistic about backing GenAl startups founded by Indian entrepreneurs.





### The New Normal For Indian Startups: Startups Embrace GenAl Technology, **Investors Confirm**



Source: Inc42 Survey

Note: These insights are based on survey of more than 50 venture capital investors that have backed Indian GenAl startups. Question asked: How would you assess the tech readiness of your portfolio startups (non-GenAI) for the adoption of GenAI technology?



### VCs To Indian Startups: Build The AI Skyscrapers, Not The Foundations



<sup>%</sup> of total respondents

#### Source: Inc42 Survey

Note: These insights are based on survey of more than 50 venture capital investors that have backed Indian GenAI startups. The percentage values do not add up to 100 since the responses were not mutually exclusive, multiple selection was enabled Question asked: In which areas of GenAI should Indian entrepreneurs concentrate when building a startup in 2024?

		62%	
	51%		
)			
%		60	%

91% of the money invested in Indian native GenAi startups to date went to companies building business or consumer applications on GenAl technology. As opposed to foundational solutions like the LLM model and cloud infrastructure.









### Large-Scale Indian Enterprises Trail Globally In Al Adoption, Say 75% Of Startup Investors

Most large-scale organisations in India struggle to convert their AI use cases from proof-of-concept to organisation-wide deployment



Source: Inc42 Survey

Note: These insights are based on survey of more than 50 venture capital investors that have backed Indian GenAl startups. Question asked: Do you think the rate of AI/GenAI adoption among large Indian enterprises lags behind that of their global counterparts?

**Indian Startup** Yes Investors 75%



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### **Talent Acquisition: The #1 Hurdle For India's GenAl Revolution**



#### Source: Inc42 Survey

Note: These insights are based on survey of more than 50 venture capital investors that have backed Indian GenAI startups. The percentage values do not add up to 100 since the responses were not mutually exclusive, multiple selection was enabled Question asked: According to you which among the following are the biggest challenges faced by Indian GenAl founders?

According to a recent Amazon Web Services (AWS) survey, 79% of Indian businesses found it challenging to acquire AI talent that met their expectations. The lack of suitable AI talent in India's workforce can hinder the growth and development of the country's GenAl startup ecosystem.



## **Key Growth Drivers Of GenAl In India**

- exciting opportunity for countries like India where cutting-edge digital hardware is still evolving.
- hub for innovation and expertise in this growing field.
- expanding rapidly into digital marketing, sales, software development, and client service.
- way for other electronics brands to bring more Al/GenAl-enabled devices to Indian consumers.

Advances In AI Technology: The push to make AI foundation models more cost-effective is accelerating, especially in emerging markets. Recent innovations like Microsoft's Phi-3 family, OpenAI's GPT-40 mini, and Mistral's Mixtral introduce compact language models, offering an

Upskilling & Reskilling In AI: AI skills are in high demand across India as professionals at all levels—from executives to entry-level employees—acknowledge the importance of AI in their roles. Bengaluru, with the world's second-largest pool of AI talent, stands as a key

Growing Demand For Business Automation: With India on track to become a \$5 Tn+ economy by 2030, business automation is set to play a transformative role. Indian companies are already adopting AI-driven chatbots to streamline customer support, and automation is

• Generative AI In Consumer Electronics: India's consumer electronics market is witnessing a boom in demand for AI-powered products like smart speakers, home gadgets, and autonomous vehicles. The launch of Apple's iPhone 16, with a focus on on-device AI, could pave the

• Government Support For Semiconductor Development: India's government is enthusiastic about positioning the country as a leading hub for semiconductor manufacturing and design. In August 2024, the government boosted its Semiconductor Manufacturing Policy budget from \$10 Bn to \$15 Bn, and major Indian players like Tata, HCL, and Bharat Electronics are already investing in this critical industry.











### **Key Challenges For GenAl In India**

- foundational tools, with most choosing to work on application-layer solutions instead.
- or even interfering with political matters.
- evolve, leaving a gap in guidance for companies and innovators.
- their offerings.
- will be crucial in establishing guidelines to harness Al's full business potential responsibly.

Few Startups In GenAl Infrastructure Solutions: Essential GenAl infrastructure tools like GPUs, large language models, and model fine-tuning capabilities are key for practical AI applications. Yet, less than 5% of funded Indian startups are focusing on building these

Risks Of Deepfake & Misinformation: With India home to the world's second-largest internet user base, the rise in Al-generated content could lead to serious risks. There's growing concern about potential misuse, including spreading false information, swaying public opinion,

Unclear Regulations & Legal Ambiguity: India currently lacks specific laws governing artificial intelligence. While the government has introduced "Niti Aayog's Responsible AI #AIFORALL" as a blueprint for future AI policies, uncertainty still surrounds how AI regulations will

Slow Adoption Among Large Enterprises: Although startups like Zomato and Flipkart have embraced GenAl, larger enterprises are slower to adopt it. A report by EY India shows only 30-40% of GenAI proof-of-concepts by Global Capability Centres (GCCs) and 15-20% by large domestic companies in India are progressing to production. In contrast, 66% of India's leading unicorns are already integrating GenAl into

Challenges In AI Governance: While larger firms are developing AI governance structures, smaller businesses are falling behind. According to an IBM survey, 71% of Indian CEOs believe AI cannot work effectively without robust governance. Public-private collaboration















# Methodology

Since 2015, Inc42 has been the go-to source for identifying Indian startups transforming industries and shaping society.

#### For this reports:

- Native GenAl startup funding data in this report is from 2020 to 28 September 2024, unless mentioned otherwise
- Seed stage: Startup at angel or seed stage
- **Growth stage:** Startups at Series A and B funding stage
- Late stage: Startups at Series C or above funding stage
- Unicorn refers to any digital / tech company valued at or above \$1 Bn or have touched this valuation once in their business lifecycle
- A soonicorn is any public or private digital/tech company valued at or above \$200 Mn
- released reports may exist
- top-down and bottom-up methodology

Our database enrichments and corrections are done on a regular basis, therefore slight variations in funding-related data compared to previously

Unless specified otherwise, the market size cited in the report represents the calculated value of the total addressable market (TAM) using both



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