Ødraup

Al Report – Draup's view on Global Al Talent Landscape

This report examines the transformative impact of artificial intelligence on the labor market and offers strategic insights for Strategic Workforce planning

DECEMBER 2024

This document is solely for the use of Draup Prospect, Draup Client and Draup Personnel only. No part of it may be quoted, Circulated or reproduced for distribution outside the prospect / Client organization without prior written approval from Draup



Current Landscape: Artificial Intelligence (AI) is rapidly becoming integrated into the workplace, with 75% of knowledge workers already using AI tools, many having started within the last six months. This adoption is driven by AI's ability to save time, enhance creativity, and increase job satisfaction. However, this integration also poses significant challenges and opportunities for the labor market.

Job Displacement and Creation: AI is reshaping the job market by both displacing and creating jobs. Approximately 10% of total employment in the U.S. is classified as potentially AI-vulnerable, with signs of declining demand in these sectors. Conversely, new roles are emerging, particularly in AI development, data science, and related technical fields. The displacement primarily affects routine tasks, while new opportunities are more aligned with high-skilled, creative, or technical roles.

Emerging AI Skills in Demand:

- AI Tool Development: Skills in building AI-powered tools, including software engineering focused on AI integration, are increasingly sought after. This includes expertise in creating custom AI solutions or adapting existing AI models for specific industry needs
- Machine Learning Engineering: There's a growing demand for professionals who can design and implement machine learning algorithms, focusing on both model development and deployment. This includes skills in handling large datasets, model optimization, and real-time machine learning applications
- Al Ethics and Safety: As Al systems become more prevalent, there's a need for experts in Al ethics to ensure that Al applications are developed with fairness, transparency, and accountability in mind. This includes understanding the implications of Al decisions on society and managing Al biases
- **Prompt Engineering:** Skills in crafting effective prompts for AI systems, particularly for large language models, to achieve desired outputs or behaviors. This involves a blend of behavioral science, user interaction design, and a deep understanding of AI model capabilities
- Data Science with AI Focus: Professionals who can not only analyze data but also leverage AI for predictive analytics, anomaly detection, and decision-making support are in high demand. This includes proficiency in AI-driven data pipelines and machine learning for data insights
- Al Interaction Design: Designing how AI systems interact with humans, ensuring that these interactions are intuitive, ethical, and user-friendly. This skill set intersects with UX/UI design, focusing on AI's conversational and decision-support interfaces
- **Reward Engineering:** A critical skill in reinforcement learning, reward engineering involves designing and optimizing reward functions that guide AI agents' behavior. It's essential for creating adaptive, learning systems that can evolve based on feedback, enhancing the alignment between AI actions and intended outcomes



Economic Impact: While AI can potentially boost global economic growth, the labor market effects are nuanced. AI might reduce wage inequality by automating tasks traditionally associated with high-wage jobs, particularly those with high cognitive demand but repetitive elements. However, the overall impact on employment is mixed, with some predictions of job polarization reversing, and others suggesting a more balanced impact across skill levels.

Policy and Education: To navigate these changes, there's an increasing call for policy interventions to manage AI's impact on employment. This includes education and retraining programs tailored to the new skill demands, ensuring that the workforce can adapt to or leverage AI technologies. There's also a need for policies that address potential negative outcomes like job displacement, focusing on worker protections and equitable AI application.

Market Sentiment: Public discourse on platforms reflects both optimism and concern. There's acknowledgment of AI's potential to transform industries, potentially leading to significant unemployment in certain sectors, while also creating new markets and job categories. The sentiment underscores a labor market in flux, with a call for strategic adaptation.

Conclusion: The latest developments in AI from a labor market perspective highlight a dynamic shift towards an AI-augmented workforce. This transition requires proactive measures in education, policy-making, and business strategy to harness AI's potential while mitigating its disruptions. The future of work appears to be one where AI and human skills complement each other, necessitating a balanced approach to technological integration.



1. AI Trends to Observe in 2025

Artificial Intelligence (AI) continues to revolutionize industries, redefine roles, and catalyze transformative change.

2. Transforming Work: The Evolving Role and Skill Competency Landscape in the Age of AI

Traditional roles are hybridizing with AI competencies, demanding a blend of domain expertise and AI fluency. Skill requirements are shifting toward adaptability, digital literacy, and the ability to collaborate effectively with AI systems.

3. AI Talent Hotspots and Demand Landscape

AI talent remains a global battleground. Established hubs like the U.S., China, and Europe will continue to dominate, but emerging regions such as Southeast Asia, the Middle East, and parts of Africa are positioning themselves as new AI talent destinations.

4. View on How AI Teams got created and Impact of AI on Hyperscalers/Big Tech Companies

Big tech companies are at the forefront of AI-driven transformation, adapting to changing workloads, fostering innovation, and redefining workforce structures. We have included insights on **Changing Workloads**, **New Roles**, and **Workforce Evolution**

5. Changing University Ecosystem in the AI Age and Rising Investments in Startups

The educational ecosystem is rapidly evolving to meet the demands of the AI age. With AI-Centric Curricula and targeted Industry-academia Collaborations, the preference of talent graduating from niche courses are changing. Additionally, there's rising investments in AI-focused startups across geographies.

6. AI Role Progression Analysis

Roles in AI are witnessing rapid progression. From Entry-Level like Data Annotators, AI Trainer to Mid-Level roles like AI Specialists, Machine Learning Engineers and to Leadership Roles such as Chief AI Officers, AI Governance Leads. This progression reflects the deepening complexity and specialization required as AI adoption matures.

7. Compensation Trends for AI Roles

Al professionals command premium salaries, with compensation influenced by **Role Specialization** (Niche roles like Deep Learning Engineers and Al Ethics Officers), Regional Variations, and Demand-Supply Dynamics: As the talent gap widens, companies are offering lucrative packages, including equity, to attract top talent.

8. Pertinent AI Focused Models Released

The evolution of LLMs & LQMs have been marked by significant milestones achieved by leading technology companies/New Age Startups who are releasing AI Focused Models across domains

Last 2 years have seen transformational leap in AI capabilities impacting some of the most critical roles in the industry; AI platforms in 2025 will exhibit enhanced reasoning abilities, greater integration into daily workstreams, & increased specialization through fine-tuning

Ødraup



Recommendation for 2025:

Workforce Planning in Light of Advancements in Al Language Models

- 1. Emphasize AI-Enhanced Skillsets Across Functions
- 2. Redefine Roles with AI Collaboration in Mind
- 3. Foster Collaboration Between Humans and AI

Incorporate Ethical

Considerations and

Workforce Strategy

Governance into

4.

- 5. Plan for Al-Driven
 Efficiency Gains with
 Consideration of
 Computational Costs

Note - The graph represents the evolution of LLM Models across Google, Open AI, and Perplexity in their assessing power by the no. of model parameters (in Billions) between 2022 to 2024 Source: Draup conducted the analysis of 850+ roles and 450M+ JDs posted for last three years to access the impact of AI on different roles While LLMs are capturing public attention, LQMs are quietly becoming more sophisticated, fueled by advancements in deep learning and increased computational power; With lines between LLMs and LQMs becoming blur, Researchers started exploring ways to combine the strengths of both

Ødraup



Preference for LLMs

- Search and Information Retrieval
- Natural Language Understanding
- Content Generation and Moderation
- Code Generation and Completion

Preference for LQMs

- Search Recommendation Systems
- Ad Targeting and Optimization
- Financial Modeling and Risk
- Supply Chain Optimization

Draup's Observation:

- Hyperscalers and Big Tech companies require both LLMs and LQMs to maintain their competitive edge and drive innovation
- While LLMs are currently experiencing a surge in popularity and investment, LQMs remain crucial for many core business functions
- Indeed, the job postings for LLM has seen massive surge in last 2 years, off late we observe organizations rolling out select LQM job postings as well. This reflects the increasing adoption of these technologies across various industries
 - major tech th LLM and rowth,
- The US, particularly Silicon Valley and major tech hubs, remains a primary center for both LLM and LQM jobs. Canada also shows strong growth, especially in AI research
- The ideal approach is a balanced one, where both types of models are developed and deployed to address the diverse needs of these tech giants

Reward Engineering is a critical process in an AI model pipeline that has seen increasing focus from top companies as a response to increasing complexity of models and data sources leverage





A centralized approach to implementing AI Ethics & Governance policies/framework will be instrumental for organizations to ensure responsible technology use, mitigate risks, and maintain public trust; The United States and the EU advance landmark AI policy action





Major forward looking innovations that are expected to drive the future of technology with groundbreaking inventions and transformative trends shaping the next generation of AI Talent



POTENTIAL INNOVATION'S AND BREAKTHROUGH'S



Artificial General Intelligence

AGI refers to AI systems with the ability to perform any intellectual task that a human can do

Impact: Revolutionizes industries with highly adaptive, human-like problem-solving abilities



Test-Time Compute

TTC is a concept in AI that refers to how much computational power a model uses to generate predictions and solve problems

Impact: Reduces latency and power consumption, enabling efficient deployment on edge devices



Liquid neural networks

LNNs are a type of deep learning architecture that can adapt to new situations and solve complex problems involving sequential data

Impact: Enhances performance in unpredictable settings, such as **robotics and autonomous systems**



Explainable AI

Explainable AI (XAI) is a set of methods and processes that help people understand the results of machine learning algorithms

Impact: XAI helps organizations build more secure systems by enabling users to understand and interpret AI decisions

INDUSTRY TRENDS

Robotic AI



Al-driven robots revolutionize industries with autonomy, collaboration, advanced sensing, and ethical considerations



Amazon's Sequoia robotic system boosts efficiency in its Houston fulfillment center by storing inventory 75% faster and processing orders 25% quicker

Rise of open-source models

Open-source AI democratizes innovation, reduces costs, fosters collaboration, and ensures transparency



Meta has launched Llama 3, an open-source model with 8B-70B parameters, enhances performance, safety, and multilingual capabilities.

Prioritizing AI Infrastructure



Al infrastructure evolves with edge computing, cloud platforms, efficiency, and large model hosting

NVIDIA's DGX Cloud offers AI supercomputing via the cloud, enabling scalable AI model training and deployment



Job Roles Taxonomy – Al Engineering and Al Research (1/2): Draup has curated the job role taxonomy by analyzing the capabilities across leading companies, which are focused on Al Engineering & Research - with a focus on globally emerging agentic and co-pilot Al roles



	AI ENGINEERING					AI RESEARCH				
Job Family	Gen Al	AI Deployment & Integration	AI Performance, Optimization	NLP	Computer Vision	Deep Learning	Fundamental Research	Specialized Research	Data & Decision Science	Quantum Al
	Conversational AI Engineer	Al DevOps Engineer	Al System Engineer	NLP Software Engineer	Camera Software Engineer	Deep Learning Engineer	Al Research Scientist	NLP Research Scientist	Applied Data Scientist - Speech	Quantum-AI Integration Specialist
	Generative AI Developer	AI Cloud Engineer	AI Optimization Specialist	NLP Automation Engineer	Image Processing and Computer Vision Algorithms Engineer	Deep Learning Compiler Staff Engineer	Al Computational Scientist	Deep learning Research Engineer	Al-Driven Decision- Making Specialist	Quantum Machine Learning Engineer
OLES	Gen Al Integration Engineer	Al Software Tester	Al Framework Developer	AI/ML - Data Engineer (NLP/Speech)	ML Engineer - Computer Vision	Deep Learning Engineer for Text- to-Speech	Applied Scientist	LLM Research Scientist	Al-augmented Decision Analyst	Quantum Computing Research Scientist
VANT JOB R	Al Copilot Developer	AI Prompt Engineer	AI Training Optimization and Efficiency Engineer	Natural Language Specialist	Data Compression Engineers	Optimization & Deep Learning Engineer	Collaborative Intelligence Specialist	Explainable AI (XAI) Researcher	Al Behavioral Data Scientist	
RELE		Domain-Specific Copilot Specialist	GPU Specialists		Image and Video data specialists		Al Interpretability Research Scientist	Cognitive AI Specialist	Al Copilot Data Curator	
		AI Creativity Facilitator	Al Copilot Performance Analyst				Responsible AI Content Reviewer	Research Scientist - Multimodal AI, Conversational AI		
		Al Workflow Orchestrator	Applied AI Strategist					Research Engineer, Vision Foundation Model and Generative Al		

Note: Draup's database of 850M+ professional profiles and 450M+ JDs were was leveraged to derive job roles and skills taxonomy. The AI job roles are not exhaustive and can be expanded as per the requirement

Emerging Agentic/Copilot AI Roles – Roles reflect the expanding capabilities of AI copilots, focusing on making them more efficient collaborators, trustworthy assistants, and integral components of various professional workflows

10

Job Roles Taxonomy – AI Infrastructure and AI Ethics (2/2): Draup has curated the job role taxonomy by analyzing the capabilities across leading companies, which are focused on AI Infrastructure and Ethics – with a focus on globally emerging agentic and co-pilot AI roles



		AI INFRASTRUCTURE		AI ETHICS AN	ETHICS AND SECURITY			
Job Family	Network Engineering	Cloud Infrastructure	IT Operations	Al Ethics	Cybersecurity	Threat Intelligence	Adversarial AI	
	Network Automation, AI Ops and Data Analytics Product Engineer	AI/ML Solutions & Cloud Infrastructure Engineer	IT Operations, AI Infrastructure Engineer	AI Ethics Researcher	DevRel Engineer, Al Security	AI Threat Intelligence Analyst	Adversarial AI Mitigation Engineer	
	AI Network Engineering and Digital Services Specialist	Cloud AI Engineer	IT Specialist, AI, Infrastructure Operations & Security	AI Governance Specialist	AI Security Software Engineer	ML Incident Response Analyst	AI Red Team Specialist	
SOLES	Network Engineering and Digital Services Specialist	Data/Cloud Infrastructure Engineer (Al Research)	IT Infrastructure & AI Network Operations Engineer	AI Trust Engineer	Application Security Al Engineer	Product Management – Al Threat Prevention Engineer	Adversarial Machine Learning Issue Resolving Specialist	
ANT JOB F	Network AI Solutions Engineer	Al Cloud Infrastructure Engineering & Data Center Analyst	HPC & AI infrastructure Expert	AI Fairness Specialist	Cybersecurity and AI Engineer	Gen Al Threat Analyst	Adversarial AI Researcher	
RELEV	Engineer- Network Assurance Data, and Al Platform	Cloud Engineer- Data Al	AI and Infrastructure Product Operations Engineer	Generative AI Ethic Specialist	Product Manager, Cybersecurity Al	Manager Cloud Security - Threat Research(AI)	Adversarial AI Mitigation Engineer	
	HPC/AI Network Architect	AI Cloud and Infrastructure Engineer	Open-Source Al Contributor (Agentic Tools)	Research Scientist – Responsible Al	Senior Enterprise Cybersecurity and AI Security Innovation Lead	Cybersecurity Threat Analyst & Al Ethicist	Gen Al Adversarial Robustness Researcher	
	Network Enablement Engineer (AI & Data)	Tech Lead, Al Cloud Infrastructure	Al Ops Engineer (Co-Pilot Systems)	AI Ethics Strategist	Cybersecurity and Al Management Engineer	Malware Analyst, Al Technologies Specialist, Threat Intelligence Expert	AI Adversarial Ethics Analyst	

Note: Draup's database of 850M+ professional profiles and 450M+ JDs were was leveraged to derive job roles and skills taxonomy. The AI job roles are not exhaustive and can be expanded as per the requirement

Emerging Agentic/Copilot AI Roles – Roles reflect the expanding capabilities of AI copilots, focusing on making them more efficient collaborators, trustworthy assistants, and integral components of various professional workflows

AI Skillset Benchmarking: Draup has leveraged the skills database to comprehensively identify & map the core and emerging AI Engineering & Research Skills globally



Job	AI Engineering, Research, Ethics										
Sub Functions	Gen Al	AI Deployment & Integration	Al Performance, Optimization	NLP	Computer Vision	Deep Learning	Fundamental Research	Specialized Research	Al Ethics	Data & Decision Science	Quantum Al
	Large Language Model (LLM) & Transformer Architecture	Model Deployment Frameworks (e.g., TensorFlow Serving, TorchServe)	Hyperparameter Tuning	Parsing, Stemming & Lemmatization	Depth Estimation	Neural Networks Architecture	Neural Architecture Search (NAS)	Interpretable Model & Cognitive Architecture	Human-Centric Design	Behavioral Analytics	Quantum Mechanics
	Multi-Modal Models	API Development for AI Models	Model Compression Techniques	Tokenization & Part-of-Speech (POS) Tagging	Scale-Invariant Feature Transform (SIFT)	Activation Functions & Backpropagation	Vision Transformers (ViTs) & Diffusion Models	Artificial General intelligence (AGI)	Transparency and Explainability	A/B Testing	Quantum Algorithms
nique Skills	Generative Adversarial Network (GAN)	Cloud Services (AWS, Azure, GCP)	Profiling and Debugging Al Models	Word Embeddings & Named Entity Recognition (NER)	Features from Accelerated Segment Test (FAST)	Normalization & Regularization	Self-Supervised Learning (SSL)	Artificial Super Intelligence (ASI)	Bias Mitigation & Algorithmic Accountability	Statistical Analysis	Quantum ML
5	Synthetic Data Generation	Containerization (Docker, Kubernetes) & Retrieval- Augmented Generation	Resource Management for Al Workloads	Stop Words Removal & Dependency Parsing	Speeded-Up Robust Features (SURF)	Deep Learning Constructs	Model-Agnostic Meta-Learning	General Purpose Knowledge Representation & Symbolic Al	Beneficence and Non-maleficence	Decision-making heuristics.	Quantum Information Theory
	Adversarial Autoencoders	Continuous Integration/Contin uous Deployment (CI/CD)	AI Benchmarking	Bag-of-Words (BoW) & N-grams	Semantic Segmentation	Stochastic Gradient Descent (SGD) & Gradient Descent	Neural Ordinary Differential Equations	Natural Language Understanding & Neural Response Generation	Human Oversight	Sequence modeling (RNNs, LSTMs	Quantum Simulation
Commo n Sub Functio n Skills*	 Classification, Clustering, Regression, Random Forest, K means Clustering, K-Nearest Neighbors (KNN), Principal Component Analysis (PCA), Bayesian Networks, Decision Trees, Apriori Algorithm, DBSCAN, Attention Mechanism, Boltzmann Machine, Support Vector machine, Bagging, Boosting, Stacking Algorithm Design, Computational Modelling, System Design, Experimental Design, Ontology Engineering, Model Auditing, Task-Agnostic Model Updates, Impact Assessment 							Design, Ontology ssessment			
Common ob Family Skills*	Boltzmann Machine, Support Vector machine, Bagging, Boosting, Stacking Python Programming, R Programming Language, Julia, Data Collection, Data Cleaning, Data Wrangling, Handling Missing Data, Data Normalization, Exploratory Data Analysis (EDA), Data Pre-Processing, Data Visualization, Descriptive Statistics, Correlation Analysis, Hypothesis Testing, Statistical Analysis, Pattern Recognition, Linear Regression, Logistic Regression, Autoregression (AR), Time Series Analysis, ARIMA, Supervised Learning, Unsupervised Learning, Semi-Supervised Learning, Reinforcement Learning, Feature Engineering, Feature Selection, Convolutional Neural Networks (CNN), Recurrent Neural Networks (RNN), Long										

Source: The Draup leverages its database of 450 Million+ JDs, 850 Million+ profiles, and 2M+ Articles to understand the skills required for 4,500+ Job roles. * Common Job Function & Job Family skills are those skills which are commonly available.

12

Global Talent Hotspots – Artificial Intelligence: The United States, followed by China, India, and Germany, together contribute to about 40% of the total AI talent globally due to their strong government-led AI initiatives, funding, and presence of trailblazing hyperscalers



TOTAL GLOBAL AI TALENT ACROSS ANALYSED FUNCTIONS: 2.2 Million		Total AI	Talent
TOTAL GLOBAL AI ETHICS TALENT ACROSS ANALYSED FUNCTIONS: 13,300	Top MSAs	AI E,R, & I*	Al Ethics
TOTAL ANALYSED TALENT COUNT ACROSS THE TOP COUNTRIES WITH AI JOB FUNCTIONS	United States	310,000	3,000
NEL JONN MY THE	China	210,000	1,400
	India	200,000	700
Germany	Germany	105,600	460
Natharlands China	UK	83,500	950
	France	81,000	350
Prance Russia	Netherlands	72,500	660
UK South Korea	Russia	63,400	340
Canada Japan	Canada	61,600	450
Mexico Australia	South Korea	52,000	550
United States Indonesia	Spain	51,500	300
Brazil Singapore	Indonesia	48,000	140
Spain India	Japan	47,000	940
Italy	Italy	41,100	250
	Poland	40,300	80
	Brazil	40,100	100
	Australia	37,500	350
	Israel	36,600	200
● High > 82,000 ● Moderate 50,000-82,000 ● Low < 50,000	Mexico	30,000	50
	Singapore	25,000	220

AI Talent Hotspots in North and South America: The AI ecosystems in North and South America are flourishing, characterized by prominent universities, vibrant research hubs, and collaborative initiatives, contributing to ongoing advancements in AI Policy framework and economic development



Installed

Talent*

83,210

32,300

30,120

22,550

16,090

15,240

13,430

8,350

8.010

7,540

5,790

5,740

5,300

10,330

2,820

Locations

San Francisco

Toronto

New York

Seattle

Boston

Los Angeles

Washington

Austin

Sao Paulo

Chicago

Atlanta

Dallas

Denver

Mexico City

Buenos Aires

Buenos Aires

New York's thriving AI university ecosystem, including Cornell and NYU, fosters innovation through collaborations and research centers. An example is Columbia University's CAIT, a partnership with Amazon



Atlanta's top universities, including Georgia Tech, Emory, and Kennesaw State offer exclusive AI programs focusing on core research areas like AI, computer vision, and machine learning

Canada is investing **\$125 million in AI research** from **2021 to 2026** through the Pan-Canadian AI Strategy

High

🕨 Low

TALENT AVAILABILITY INDEX

Moderate 11,000-27,000

> 27,000

< 11,000

Toronto is becoming an **AI startup hub**, following Silicon Valley's lead. The thriving Gen AI ecosystem **boasts over 600 startups**



To fund innovative projects carried out by small and medium-					
sized companies in the state of Sao Paulo, FAPESP has					
designed a program "PIPE"; AI startups can apply for PIPE					
funding to develop and bring innovative AI solutions to					
market					

Note: Draup primarily analyzes its proprietary database of 850M+ Professional profiles, and 450M+ Job descriptions, and compliments it with multiple publicly available career websites, ML annotated research videos and company websites; This
data strengthens over 75 ML models and over 12 Psychology models to derive actionable insights, which is also complimented by the analysis carried over by strategic consulting teams within Draup* Installed Talent includes the professionals
having relevant skills in the fields of AI/ML, Deep Learning, and Generative AI across the various MSAs in North and South America. Here we have not separately captured AI Ethics Talent at an MSA Level

Source: The above insights are curated through various strategic and tactical signals from news articles, journals, Industry reports, and other official organizations

AI Talent Hotspots in Europe: Beyond traditional hubs like France and the United Kingdom, countries like Germany, Spain, and Switzerland are emerging as the AI hotspots in Europe

Lisbon



of 8%

With 45% of the total UK AI companies and a £17 billion turnover, London demonstrates a steadfast commitment to the growth of the AI sector, expanding at an estimated rate

The **French government** strongly backs the AI sector, aiming to position France as Europe's leading Gen AI market. Initiatives like a €500 million fund support French 'AI Champions' in research and development.

In Germany, the cities of Berlin and Munich continue to dominate the AI Startup Landscape. Their share amounts to approximately 50% of German AI startups. There are 687 Dublin startups on the German AI Startup Landscape 2024, representing a 35% growth compared to the previous year.



The **Polish Government** has shown active promotion of research in the field of AI by adopting the "Policy for AI Development" in 2020; the policy highlights AI's economic opportunities for Poland and sets the framework for its deployment

Lithuania has launched a pilot artificial intelligence (AI) environment, known as an "AI sandbox". The space will allow Lithuanian technology companies to safely design, test and develop Al solutions before bringing them to market



Note: Draup primarily analyzes its proprietary database of 850M+ Professional profiles, and 450M+ Job descriptions, and compliments it with multiple publicly available career websites, ML annotated research videos and company websites; This data strengthens over 75 ML models and over 12 Psychology models to derive actionable insights, which is also complimented by the analysis carried over by strategic consulting teams within Draup. .*Installed Talent includes the professionals having relevant skills in the fields of AI/ML, Deep Learning, and Generative AI across the various MSAs in Europe. Source: The above insights are curated through various strategic and tactical signals from news articles, journals, Industry reports, and other official organizations. Here we have only captured the talent coming in from AI Research, AI Engineering and AI Infrastructure domains

AI Talent Hotspots in Asia: China's AI market is flourishing with rapid growth, fueled by innovation and intense competition among tech giants, leading to significant advancements in technology and widespread applications across industries





The Asia Pacific Generative AI market is expected to witness a growth of 33.1% CAGR from 2022-28*

among the top 3 MSAs **Beijing** is (Globally) for all the Generative AI job roles



සුල්ලිස

Indeed experienced a 158% surge in job postings related to Generative AI in India in the last 5 years

According to industry reports, China's AI sector is experiencing a talent shortage for individuals skilled in building AI products which will grow sixfold by 2030 from current levels



The demand is driven by fierce competition among major Chinese tech players like ByteDance, Alibaba, Tencent, and Huawei to launch extensive language models and AI applications



In 2024, 13,000 patents were grated to Chinese inventors in areas of generative artificial intelligence, far outpacing inventors in the US with 8,609 patents



Note: Draup primarily analyzes its proprietary database of 850M+ Professional profiles, and 450M+ Job descriptions, and compliments it with multiple publicly available career websites, ML annotated research videos and company websites; This data strengthens over 75 ML models and over 12 Psychology models to derive actionable insights, which is also complimented by the analysis carried over by strategic consulting teams within Draup. .*Installed Talent includes the professionals having relevant skills in the fields of AI/ML, Deep Learning, and Generative AI across the various MSAs in Asia. Here we have only captured the talent coming in from AI Research, AI Engineering and AI Infrastructure domains Source: The above insights are curated through various strategic and tactical signals from news articles, journals, Industry reports, and other official organizations.

Melbourne

16

AI Talent Dashboard – By Country: The United States, China, and India contribute about 35% of the global AI talent; India observed the highest growth rate of 21% followed by China (16%), South Korea employs largest share of 49% early career talent %, followed by Indonesia (46%) and India (45%)



Location	Talent Size	Growth Rate %	Talent Demand %	Experience Split (0-5 Yrs. 6-10Yrs. 10+Yrs.)
United States	310,000	14%	27%	21% 29% 50%
China	210,000	16%	25%	29% 29% 41%
India	200,000	21%	22%	45% 34% 21%
Germany	105,600	12%	14%	27% 32% 50%
UK	83,500	11%	18%	24% 29% 47%
France	81,000	14%	16%	41% 28% 31%
Netherlands	72,500	10%	13%	24% 32% 44%
Russia	63,400	12%	15%	42% 25% 33%
Canada	61,600	13%	15%	28% 29% 43%
South Korea	52,000	13%	16%	49% 29% 22%
Spain	51,500	13%	15%	31% 29% 40%
Indonesia	48,000	11%	11%	46% 25% 29%
Japan	47,000	14%	13%	33% 33% 34%
Italy	41,100	12%	13%	35% 21% 44%
Poland	40,300	12%	14%	34% 34% 32%

Note: Draup leveraged its database of 850M+ profiles and 450M+ Job Descriptions for analyzing parameters such as Installed talent, Growth rate, Attrition rate, and talent demand. All the parameters have been analyzed for the last 1 year (November 2023 – December 2024). Demand numbers are calculated as the percentage of the talent supply. Here we have only captured the talent coming in from AI Research, AI Engineering and AI Infrastructure domains



Favorability High

10+ Y

Moderate

Low

National programs to integrate AI technologies in the various industrial sectors by Leading Global Countries is expected to increase the AI talent demand across regions







- The U.S. unveiled the Partnership for Global Inclusivity on AI in 2024, backed by Amazon and Google, investing \$100 M for AI governance
- AWS announced a \$10 B investment in 2024 in Ohio to bolster cloud and Al services



- Netherlands Ranks 1 in the Global Index on Responsible AI reported in 2024 due to strong policies
- Generative AI initiatives are boosting its GDP by \$85B over the next decade, 6.5 M jobs augmented with Gen AI



China has introduced AI 'Capacity-Building Action Plan for Good and for All,' focused on global cooperation to enhance AI literacy and assist developing nations in building AI infrastructure in 2024



- The Government of Canada is allocating \$2 B from Budget 2024 to support Al research, including up to \$700 M for building Al data centers
- The government launched the 'Canadian Artificial Intelligence Safety Institute' with a \$50 M budget from 2025 - 2029 to address AI safety risks



- India's Ministry of Electronics and Information Technology allocated \$1.25B for 2024 – 2029 to enhance the AI ecosystem through the 'IndiaAI Mission'
- Google launched AI partnerships in 2024 to enhance healthcare, sustainability, and agriculture through initiatives like diabetic retinopathy screening and urban waste management



- Microsoft invested \$3.44B in Germany between 2025 2028 to enhance
 AI and cloud infrastructure
- HCL Tech launched an Al-focused innovation lab in Munich to support clients transitioning to SAP S/4HANA Cloud in 2024



- The Global Commission on REAIM is promoting **ethical AI integration** in **military applications** in South Korea in 2024
- Microsoft launched the AI Skills Navigator in South Korea in 2024 to enhance AI capabilities through customized learning pathways



- SoftBank partnered with Nvidia in 2024 to build Japan's AI supercomputer using DGX B200 systems, aiming to establish itself as Japan's 'AI grid'
- Microsoft announced a \$2.9 B investment in Japan to expand AI and cloud infrastructure and train 3 M people in AI skills in 2024

Source: Draup's ML Model, which tracks 2M+ news articles, publications, white papers and industry reports, was leveraged to gather the information.

18

Moderate

USA, China, and India have observed the highest AI demand in the past year to support the growing AI capabilities and infrastructure; Google, Microsoft are at the forefront of floating AI job postings





Demand for AI Related Jobs in China is surging drastically, soared 321.7% year-on-year during the Q1 of 2024



Job openings on natural language processing one of the core vacancies in AI — surged 126% YoY in the Q1 2024

1.2M+ Job Postings observed for AI job roles between Dec 2023 – Nov 2024 globally



Note: The represented data is derived from Draup's Proprietary Talent Module. Draup has analyzed 850M+ talent profiles and 450M+ Job Postings to derive the job roles based on the provided job functions and industries. *The skills highlighted in italics represent the most in demand for the Clinical Research Associate role in the region. The top skills and companies listed are not exhaustive. Al teams curation within Hyperscaler organizations has been pivotal in shaping the trajectory of artificial intelligence, driving innovation, and influencing both the tech industry and society at large





Note: The Data has been sourced from Draup's proprietary talent module, which tracks 1000+ Custom Reports, 2M+ Publications, 380 Mn+ JDs and 800 Mn+ professional profiles

Al teams curation within Hyperscaler organizations has been pivotal in shaping the trajectory of artificial intelligence, driving innovation, and influencing both the tech industry and society at large



Odraup

Big Tech/Hyperscale Dashboard: There is an increased focus on emerging roles like Gen AI and Computer Vision Engineers, leading to an increase in demand for skills like NLP, GANs, MLAs, and Predictive Analytics; Big Tech floated about 35% - 40% job postings in Q4 2024 as against Q3 2024





Source: Draup's Proprietary Talent Module, which tracks 850 Mn+ profiles and 450 Mn+ Job Descriptions, has been leveraged to derive the talent attributes. The list of competitors is not exhaustive. Exp Split 0-5 Y Note: Talent attributes such as talent availability and diversity are calculated as of Nov'24; Attrition rate and demand have been calculated for the past 1 year (Dec'23-Nov'24)

10+ Y

6-10 Y

Degree of Centralization: Draup curated a framework to identify the degree of centralization and observed that the majority AI leadership is employed within the HQ across analyzed big tech; However, Amazon showcased a degree of decentralization across AI leadership attributed to AI initiatives across various business units

Odraup

	Degree of Centralization – Big Tech AI Teams						
Competitor	Globa	al AI Talent Distribution	Global Al I	Leadership Talent Distribution	Global S	VP/VP AI Talent Distribution	
	Talent Size	HQ AI Talent 🔲 Non HQ AI Talent	Talent Size	HQ AI Talent Non HQ AI Talent	Talent Size	HQ AI Talent Non HQ AI Talent	
	16,800	48% 52%	1,200	70% 30%	100	73% 27%	
amazon	12,100	52% 48%	300	57% 43%	< 50	76% 24%	
G	8,390	63% 37%	320	56% 44%	< 50	79% 21%	
🔿 Meta	8,720	82% 18%	430	81% 19%	< 50	89% <mark>11%</mark>	
É	7,840	72% 28%	220	83% 17%	< 50	81% 19%	

AI Team Divisions across Competitors – Key Insights G amazon ∧ Meta Apple combined its core ML and Google consolidated Google Microsoft AI CoE oversees AI Amazon's AI initiatives are Meta has developed a ML-Ops Siri teams under the head of the DeepMind Google initiatives with broader distributed among different ecosystem that consolidates and newly formed AI/ML team in Research AI teams in 2024 business goals, and consists of business units, such as AWS 2018 to deploy centralized AI focused on models. research. experts from data science, ML, and the Alexa team. Each unit flexible, **decentralized tools** for team and responsible AI, under the development operates its own AI teams that different product teams with product to umbrella of Google DeepMind prioritize AI projects focus on specific applications different needs.

Note: Draup leveraged its database of 850M+ profiles and 450M+ Job Descriptions for analyzing parameters such as Global AI Talent distribution across HQ and Non-HQ locations. Analyzed competitors have HQ based out of United States

Source: Draup's ML Model, which tracks 2M+ news articles, publications, white papers and industry reports, was leveraged to gather the information.

key elements while also offering

Focus on global AI leadership distribution across HQ v/s Non-HQ locations

Big Tech AI Implementation: Big Tech adopted LLM techniques to improve efficiency, reduce costs, and provide better customer experiences; Google implemented AI for code generation/correction for increased efficiency; Meta's Code Compose helps engineers in AI-based coding, and Microsoft leverages AI to enhance the decision-making



	AI Developments – Big Tech Competitors					
Competitor	AI Implementation Overview					
Google	 Google integrated AI into its operations and created "Goose" for its workforce. Employees use Goose to answer queries related to Google's proprietary technologies, generate code using internal tech stacks, and edit code based on natural language prompts By implementing Goose, Google aims to drive efficiency and innovation within its workforce. 					
Microsoft	 Microsoft is leveraging generative AI, mainly through tools like Copilot, to transform its user experience (UX) design and product creation approach It facilitates more efficient prototyping, data-driven decision-making, and user behavior prediction, enabling designers to iterate designs more rapidly and accelerating the product development cycle 					
amazon	 Amazon implemented Gen AI into various aspects of the business, crating a conversational Alexa with generative AI making Alexa understand context, have back and forth conversations, leveraging Gen AI to improve product listings helping sellers, produces more thorough product listings, and helps customers make more confident purchase decisions Simplifying reading prescriptions allows the pharmacy to scale operations, fill prescriptions more quickly and efficiently, and reduce human error 					
🔿 Meta	 Meta employs AI in its software development through CodeCompose, a generative AI-based coding assistant. This tool enhances developer productivity by streamlining workflows, suggesting code snippets, and improving code quality By leveraging AI, Meta accelerates development cycles, ensuring efficient and high-quality software delivery 					
ú	 Apple developed a machine learning framework called "MLX," enabling developers to build models that run efficiently on Apple Silicon and deep learning model library MLX Data, focusing more on machine learning and LLM's. 					

The Anatomy of an AI Team: Roles, Skills, and Synergies – View on how organizations go about setting up AI Teams



Building the Future: Optimizing AI Team Composition for Strategic Success

At Draup, we analyzed AI teams created within select enterprise companies* over the past two years. This analysis offers directional insights into how organizations structure these teams based on experience levels.



Strategic Workforce Planning: Shifting Focus from Headcounts to Optimizing Skills and Experience in AI Teams

Workforce Planners and Recruiters have traditionally focused on headcounts and meeting hiring targets. However, there's a much greater opportunity to add strategic value by considering the optimal mix of skills and experience within teams, especially in the context of building AI teams.



Building Well-Balanced AI Teams: The Role of Technical Experts and Mid-Tier Talent will be crucial to success of AI Teams

A well-balanced team typically includes technical experts like data scientists working alongside analysts and domain specialists who contribute to developing AI solutions that generate real business value. A common trend is the focus on building a strong "mid-tier" layer, with employees typically possessing 6 to 11 years of experience, as this group is seen as critical to team stability and project success.



Empowering Early-Career Professionals in AI Teams: Key Roles in Deployment and Development

- One area that deserves more attention is the role of early-career professionals in setting up AI teams. AI teams' skill composition and organizational structure are essential for aligning AI initiatives with overarching business objectives.
- Interestingly, there are growing opportunities for early-career professionals, particularly in AI deployment roles, where implementation skills are in high demand. Within the development phase, areas like synthetic data creation present promising entry points for early-career talent, offering them the chance to contribute meaningfully while building expertise in cutting-edge technologies.

	Compos
AI Talent D	istribution across Seniority Level
5%	Leadership Roles CDO, Chief Al Officer, Al Architect
20%	Al Research Director, Sr Al PM, Sr DS Manager
29%	Mid Level Roles Sr Al Engineer, Sr Data Scientist, Al Research Scientist
40%	Early Career Roles Al Engineer, ML Engineer, Data Engineer, NLP Engineer

Composition of AI Teams

DEDLOYMENT DEDLOYMENT DEPLOYMENT GOVERNANCE GOVERNANCE DEVELOPMENT DEVELOPMENT DEVELOPMENT & SUPPORT & SUPPORT & SUDDORT & SUPPORT Artificial Ouality Intelligence Al Governance Learning Infrastructu Deploymen ID4/FD4/Synthetic Research & Onerations Data and Cloud Model Support and lata Creation Data Science Development (MLOps) Engineerin Validation Compliance Securit Governance Development Early Caree 196 6% 2% 6% 7% 6% 696 1% 2% (0-5 YOE) 11.90% 27.59% Mid-Level 496 3% 596 3% 5% 3% 396 1% 1% 11.61% 17.57% (6-11 YOE) Senior-Level 2% 596 496 4% 4% 3% 1% 1% 1% 11-17 YOE) 11.17% 15.24% eadership 0% 1% 1% 096 1% 0% 0% 0% 0% (17+ YOE) 2.11% 2.58% 10% 17% 10% 14% 17% 12% 11% Total 30

AI Talent Distribution by workload

koyment & sport and remance 27.59% 17.57% 15.24% 2.58%



MICROSOFT TEAM STUCTURE – ARTIFICIAL INTELLIGENCE

Microsoft AI Organizational Chart: Microsoft AI team is headed by Chief AI Officer, oversees AI initiatives with broader business goals, and consists of experts from data science, ML, to prioritize AI projects; It is categorized across Microsoft AI, Azure AI, DSA, AI Silicon Engineering, and Dynamics 365 AI

conducted extensive research based on secondary sources to collate centralized/ decentralized organizational structures in respective companies. This

is not exhaustive and can be expanded on requirement basis



Emerging Agentic/Copilot AI Roles

Copyright © 2024 DRAUP. All Rights Re

Ødraup

Comparative Seniority Level

Microsoft AI Co-pilot/Agentic Job Roles: Microsoft's hiring policy focuses on a variety of emerging co-pilot roles like Co-Pilot Technical Specialists, Co-pilot Solution Architect and Product managers for the Co-Pilot studio, with emphasis on skillsets/tools viz., Natural Language Processing, Multi-Agent systems and Microsoft 365 Co-Pilot





Note: Draup's database of 850M+ professional profiles and 450M+ JDs were was leveraged to derive job roles and skills taxonomy. The AI Co-pilot job roles and new age AI listed skillsets/competencies are not exhaustive and can be expanded as per the requirement

Microsoft Role Transition – AI Research and Prompt Engineering : Draup has developed a learning plan with the sequence of skill cluster acquisition that helped transition Microsoft employees transition into roles associated with AI workloads





- The transition from Data Science Engineer to Research Scientist or Prompt Engineer is feasible due to the significant overlap in the skill sets required for both roles. Both professions require a strong foundation in data analysis, programming, and statistical methods
- However, to successfully make the shift, Data Scientists must acquire additional specialized skills



Source: Draup Tracks 4M+ Career paths across 16M+Data Points from Over 8000 Data Sources

Note: The paths showcased are not exhaustive, the ones mentioned here are the most commonly occurring and plausible paths. Skill level data has been extracted from DRAUP Reskill Navigator. The time durations mentioned are based on preliminary analysis considering 50 hours of dedicated learning per month, subject to change upon deeper analysis

Talent Migration from Academia to Industry: AI PhD holders are increasingly preferring to take roles in industry over academia in the last decade





Reason for higher preference of jobs in the Industry

- The tremendous growth in the AI industry and the demand for research expertise in this domain is showcased here as greater number of AI PhDs are opting to work in industry
- The opportunity to work in diverse fields such as healthcare, finance, e-commerce, and retail also provides is also a driver for AI PhD holders to opt for industry roles

Migration of AI Talent from Industry to Academia**



Reasons for reduced migration from industry to academia

- The growing prominence of cutting-edge development within the industry has allowed research focused professionals to stay in the industry
- Currently, industry roles in AI research labs such as Google DeepMind, OpenAI, Microsoft Research, etc now rival academia in reputation and influence

Source: The insights have been sourced from The AI Index 2024 Annual Report by Stanford University

*The unaccounted jobs taken by AI PhD holders include freelance consultant roles, entrepreneurship, non- profit research, etc. ** The migration of talent to faculty roles captured here includes only US and Canadian universities from companies working on AI. 30

Company and University Partnerships: Companies like Apple, Meta, and Amazon are forming partnerships with universities to advance AI research, drive innovation, and prepare students with essential skills for an AI-driven future



Industry-Academia Partnerships to Foster AI Talent NUMBER OF AI TYPE OF COMPANY PATENTS FILED BY THE UNIVERSITY INSIGHTS PARTNERSHIP COMPANY (2023-24) Every year, Apple University, in a joint program with Stanford University's McCoy Family Center for Ethics in AI/ML PhD Stanford Society, hosts postdoctoral fellows whose research focuses on issues at the intersection of ethics and AI 111 Fellowships, Funding University technology. Each Scholar receives funding as they pursue their PhD, internship opportunities, and mentorship and Mentorship with an Apple researcher in their field. **Carnegie Mellon University** Nvidia will establish "Joint Technology Centers" with Carnegie Mellon University and the University of Joint Technology Pittsburgh. CMU's center will focus on robotics, while Pitt's is centered on health sciences, including applications of AI in clinical medicine and biomanufacturing. The schools will get access to Nvidia's latest AI software and University of Center Pittsburgh frameworks. 273 NVIDIA The partnership between the University of Florida and NVIDIA aims to integrate AI education across all **Technology Transfer** UF FLORIDA disciplines. By leveraging NVIDIA's expertise, the university will enhance academic quality and bolster its and AI Research reputation for research and innovation. This initiative prepares students for a future driven by AI, fostering Programs interdisciplinary collaboration and equipping graduates with essential skills. Meta's Artificial Intelligence Learning Alliance (AILA) partners with Georgia Tech to offer a free, accessible deep Georgia Tech learning curriculum to increase diversity and equity in AI. The initiative focuses on underrepresented groups Meta 97 **Specialized Courses** through collaborations with HBCUs, HSIs, and AANAPISIs, empowering students with the skills and resources to pursue careers in AI and build a more inclusive workforce Amazon has partnered with NVIDIA, the University of Washington in Seattle, and the University of Tsukuba in AI Research, Funding Japan in a \$110 million initiative to enhance AI research and workforce development, focusing on areas such as amazon 154 and Specialized robotics, healthcare, and climate change. This collaboration aims to address the global AI talent shortage by equipping students in both the U.S. and Japan with cutting-edge AI skills through access to high-performance Trainings computing resources and advanced training opportunities

Note: The insights here have been gathered from company websites, blogs, press releases, and news articles. Please note that the list of universities is not exhaustive and does not represent any specific rankings.

Startup Ecosystem – AI: United States has the highest number of Artificial Intelligence startups and raised higher VC fundings; China is witnessing an increased growth in AI funding in recent years as a part of its government plan to lead in AI by 2030





Source: Draup's peer intelligence and startup modules have been leveraged for startup size and growth rate. Note: The VC funding data is curated from news articles, journals, Industry reports and, other official organization platforms like Crunchbase 32

In top AI Geographies, share of talent with AI capabilities is much higher in startups than that in traditional large-scale companies, showcasing the trend of startups driving innovation in the field of AI

Shivam



Note: The Data has been sourced from Draup's proprietary talent module, which tracks 1000+ Custom Reports, 2M+ Publications, 380 Mn+ JDs and 800 Mn+ professional profiles; Top Startups are defined by top 15 startups in the geography that have raised highest funding in the calendar year of 2024 Source: https://www.imf.org/external/datamapper/DI@AIPI/ADVEC/EME/LIC

33

Futuristic AI Role Transitions (1/3): Job Roles like Data Science Engineers can be transitioned into ML Engineer, Research Scientist Engineer, Computer Scientist among other critical roles before transitioning into Futuristic, Generative AI roles such as Generative AI Architect, Prompt Engineer, and AI Bias Expert

Ødraup



Note: Draup performs complex assessments around various critical parameters between existing and desired roles to understand skill gaps. The above analysis is illustrative and intended to provide an overview.

The estimated reskilling time captured for different transitions in the slide may vary depending on the existing skillsets for an individual professional and the skill gap to be covered, as well as on the starting and the end role considered.

Definitions: 1) Starting Job Roles: Refers to the cluster of Job titles currently present in Adobe Job Taxonomy and have been referenced from the Adobe Job Taxonomy data previously shared as well as Adobe Job Openings data present in Draup JD Database 2) Critical: Refers to the clusters of roles that have experienced inclusion and utilization of AI/ML workloads along with core design competencies; *Futuristic AI roles: Refers to the clusters of Job roles that either currently are leveraging Gen AI in existing workloads or projected to leverage Gen AI in future

Learning Journey (2/3): Draup has developed a comprehensive 6-month learning journey for Data Science Engineer (Level 1/2/3/4) to transition into Prompt Engineer with beginner level Job Ready Proficiency

draup



Note: Skill-level data has been extracted from Draup's Reskill Navigator. The time durations mentioned are based on preliminary analysis considering 2 hours of dedicated learning per day, subject to change upon deeper analysis. The course selection model considers the following parameters - (i) Rating of the content, (ii) Number of users/enrolments, (iii) Issuing Authority (any user preferences are recorded), (iv) Duration of the content (in case of courses, preference is not given to very short duration content), (v) Individual / Enterprise level costs, and (vi) Skills scope and coverage within the course. *Completion of courses recommended will provide employees with beginner-level proficiency in the end role.

AI Reskilling Stories (3/3): Apple and Amazon have implemented strategic reskilling initiatives aimed at leveraging the overlapping skills of their professionals to transition them into desired and high-demand job roles





Sectoral AI Compensation Trends: Tech giants are offering the highest median base pay to AI Engineers across all the countries mentioned, followed by the BFSI, Automobile and Healthcare sector





Note: All salaries are base salaries in USD and do not include additional compensation & benefits offered by individual companies in the Mexico region; 95th percentile salary is analyzed by taking into account salaries across all highest-paying firms Source: Draup's Cost Simulation Module. The analysed data points are harvested from global salary social media platforms, company job postings and official boards. The cost datasets are then normalized and mapped to specific job clusters and job role. 37

Pay parity and disparity in AI roles presents a complex landscape influenced by various factors, including technological advancements, market dynamics, and socio-economic conditions





Advanced AI Skills – Wage Disparity

- Al engineers that develop expertise in ML, NLP, neural networks skills get substantial financial rewards due to the high demand where Employers are willing to pay up to 47% more for employees with AI skills
- Proficiency in ML algorithms and DL frameworks, help earn substantial premiums, often 30% more than their non-specialized counterparts
- Certifications in AI platforms (AWS, Azure, Google AI) and open-source contributions are becoming key salary differentiators

Pay Parity in Remote AI Roles

- Big Tech companies are willing to be 'Pay Neutral' when offering remote AI roles globally
- Al engineer based in India may receive an offer from a U.S. tech firm with a salary that aligns with U.S. market rates, which are significantly higher than local salaries, creating a scenario where pay parity is sought across borders

Entry Level (0-5 Years)

Mid Level (6-10 Years)

Note: All salaries are base salaries in USD and do not include additional compensation & benefits offered by individual companies in the Mexico region; 95th percentile salary is analyzed by taking into account salaries across all highest-paying firms Source: Draup's Cost Simulation Module. The analysed data points are harvested from global salary social media platforms, company job postings and official boards. The cost datasets are then normalized and mapped to specific job clusters and job role. ³⁸

Senior Level (10+ Years)

Median Base

The evolution of LLMs & LQMs have been marked by significant milestones achieved by leading technology companies/new age startups rolling out 'General Purpose AI Models', 'Open Source AI Models', and 'Domain Specific AI Models'

Ødraup

Model Category	Broad Summary	Pertinent Examples
	 General-purpose AI models are designed to perform a wide range of tasks across various domains without being limited to a specific function. 	perplexity SQwen2.5
GENERAL PURPOSE AI MODEL	 These models are typically trained on extensive datasets and can adapt to multiple applications, making them versatile tools in many industries. Their flexibility to adapt to new contexts makes them invaluable for productivity. 	Claude **
	 Open-source AI models are freely available to the public, allowing anyone to access, study, and understand their architecture, code, and training methods. 	ИТСТРАН
OPEN SOURCE AI MODEL	 These models can be modified and adapted to specific needs, fostering innovation through community-driven contributions and shared improvements 	
	 By reducing barriers to entry, open-source AI models enable widespread adoption of advanced AI technologies across industries, promoting equitable access and ethical development. 	
	• Domain-specific AI models are like precision instruments, fine-tuned to excel in particular fields or tasks.	CURSOR * Midjourney Al granola
Domain Specific Al MODEL	• These models are crafted with a deep understanding of their target domain, whether it's finance, healthcare, or marketing.	
	• Their focused nature allows them to deliver more accurate, reliable, and actionable insights for niche domains	



General purpose Al models			Open Source Models		
Company	Founding Year	Broad Summary	MISTRAL AI_	2023	Open-source model matching GPT-3.5 Turbo performance with commercial usability
perplexity	2023	Al-powered search engine and research assistant	Meta LLAMA 3	2024	Advanced multilingual model with strong performance
∦ Claude	2023	General chatbot ideal for collaborative projects and idea sharing	()	2024	High-performance bilingual model for text-image conversations and human-like text and code generation
Ś	2022	AI model with Advanced Voice Mode for interactive conversations	🙀 Qwen2.5	2024	Best performing open-source LLM with 85+ scores on MMLU and HumanEval, excelling in coding, math, and general tasks

View on leading Domain Specific AI Models prevalent in the market (1/2) – Covering Product, Engagement, and Creativity focused models



Product focused AI models				
Company	Founding Year	Broad Summary		
TURSOR	2023	AI code editor that understands codebase for enhanced productivity		
2 B. J.	2024	AI agents that turn natural language into functional apps and websites		
🗥 base	2024	Use any AI model in one unified platform		
<i>{}</i>	2024	Al autocomplete tool that streamlines your coding process with smart suggestions		

Engagement focused AI Models			
Company	Founding Year	Broad Summary	
remix	2023	Social app for creating and sharing AI-generated images and videos	
🔘 Meta Al	2024	Generate AI images of yourself, family, and friends within Meta apps	
🖊 Grok	2023	Chatbot from xAI that engages users in interactive conversations	
CURIO BETA	2023	Al-powered toys that allow kids to engage in conversations using realistic voices	

Creativity focused AI Models				
Company	Founding Year	Broad Summary		
llElevenLabs	2023	Create realistic AI voices for various applications, including voice cloning and text-to-speech		
SUNO	2023	Generate songs and music from text prompts effortlessly		
💥 Midjourney Al	2022	AI platform for generating stunning images based on user prompts		
(R runway	2023	Al-powered video generation, enabling creative storytelling through visuals		
🗱 KREA	2023	Creative canvas for making and enhancing images and videos with AI tools		
Photoroom	2020	Al image editor designed for creating professional product photos and visuals		

View on leading Domain Specific AI Models prevalent in the market (2/2) – Covering Productivity, Audience & Content, and Niche AI models



Productivity focused AI models				
Company	Founding Year	Broad Summary		
granola	2024	Al notetaker that transcribes meetings and enhances notes with key details		
III Flow	2024	Voice dictation tool that converts speech to text in any application		
6	2024	Create presentations, documents, and websites effortlessly using Al		
Δdobe	2024	Summarizes and facilitates interaction with PDFs for easier content management		
cora	-	Email assistant that organizes your inbox and automates responses for efficiency		
Lindy	2017	Build AI agents to streamline and automate your workflows effectively		

Audience and Content focused AI models				
Company	Founding Year	Broad Summary		
) €Delphi	2022	Al clones for text, voice, and video that engage your audience in personalized conversations		
l•leyGen	2023	Create AI avatars to scale content production and translate videos effortlessly		
Se Argil	2023	Al avatars designed specifically for creating engaging social media videos		
OpusClip	2023	Transform long-form videos into short, viral clips using AI technology		
captions	2021	Al-powered avatars and video editing tools for automatic captions and improved video quality		

Niche Al models			
Company	Founding Year	Broad Summary	
😥 Rosebud Al	2019	Create realistic AI voices for various applications, including voice cloning and text-to-speech	
G	2021	Personalized parenting co-pilot offering tailored support and resources	
ada	2011	Al-powered tool that provides assessments of medical symptoms for informed health decisions.	
a	-	Personalized AI counselor and coach designed to support mental well-being and personal development	
ଲ NotebookLM	2023	Transform any document into an engaging AI podcast for easy listening and learning	
	2024	Al news app that summarizes multiple articles into concise stories for quick updates	



HOUSTON I BANGALORE

www.draup.com I info@draup.com



© 2024 DRAUP. All Rights Reserved.