

BHAWANA SAXENA

# IT CAREER COMPASS SESSION # 2

## Different Fields in IT Approaching AI

Contact

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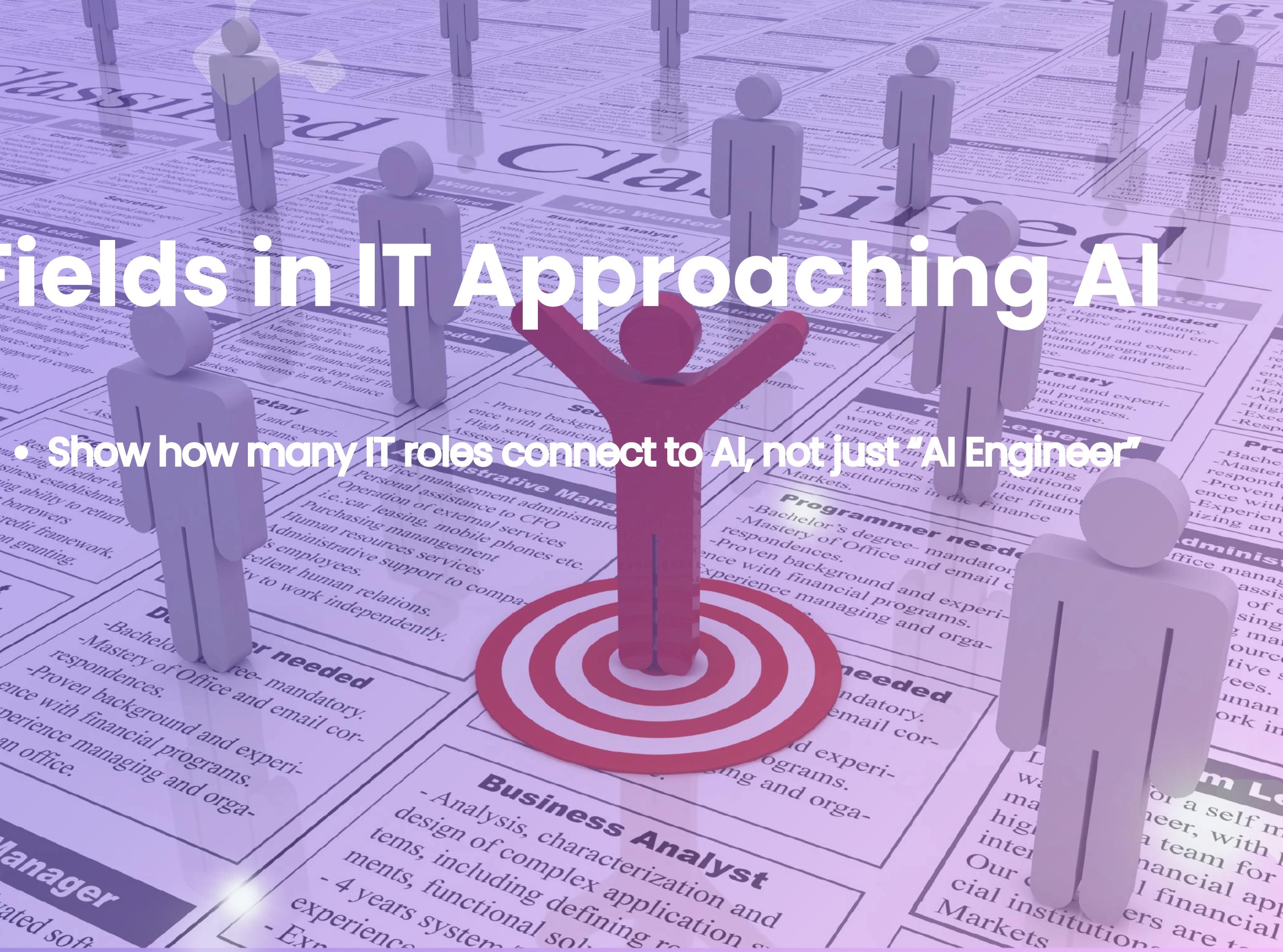
# Why??

- AI is transforming every field ,not just data science!
- You just need to know how AI fits into your role.

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# Different Fields in IT Approaching AI

- Show how many IT roles connect to AI, not just 'AI Engineer'



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# Different Fields in IT Approaching AI

- Help participants see where they might fit, based on interest & skill.



# Different Fields in IT Approaching AI

- Reduce the intimidation of “AI is only for experts”, show starting pathways.



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# Different Fields in IT Approaching AI

- Inspire learners with real-job trends in India.



## CAREER OBJECTIVE

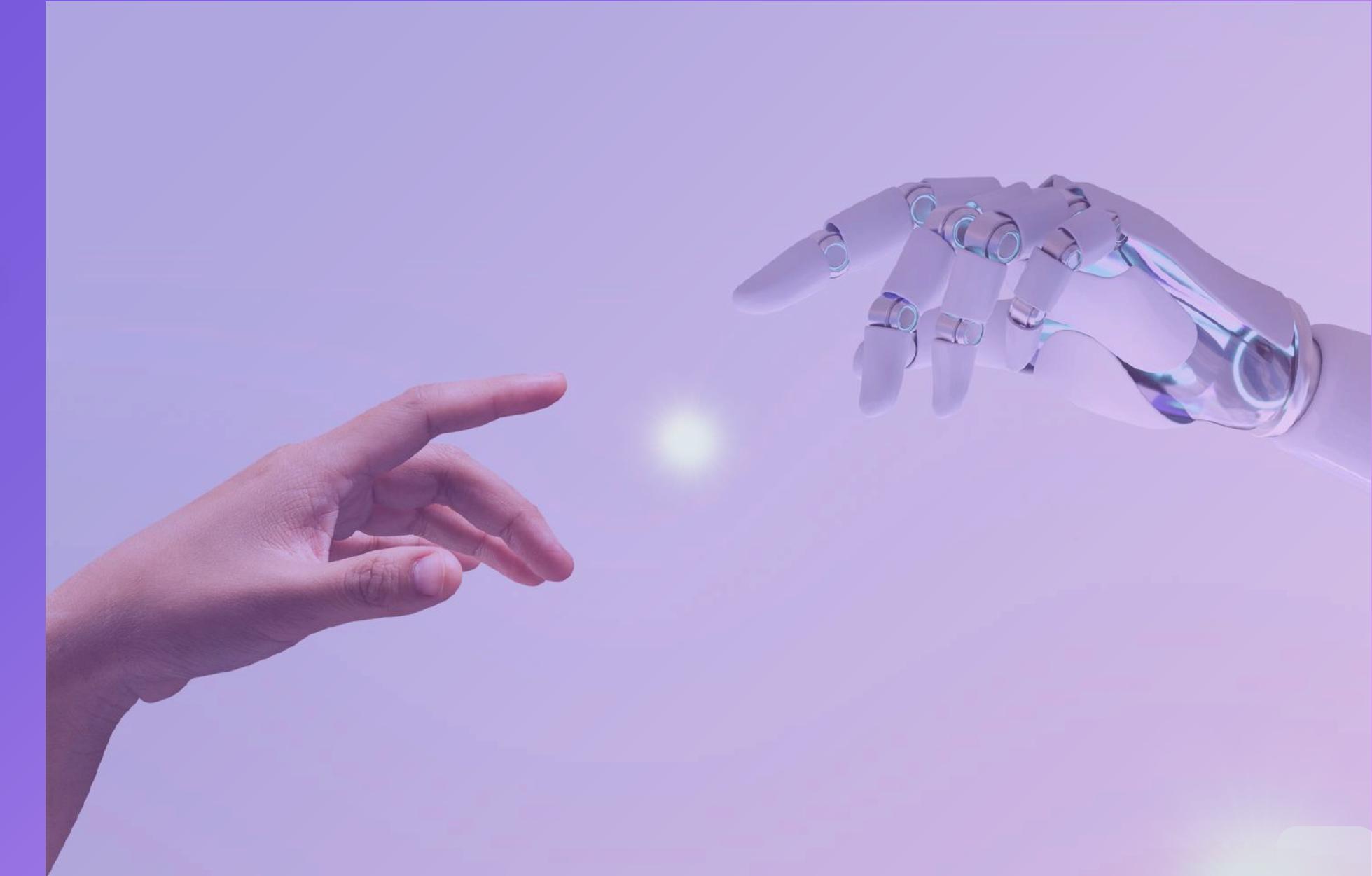
An employment opportunity in a Business Development related field.

## SUMMARY OF QUALIFICATIONS

Experienced in recognizing opportunities to develop business prospects and help establish business alliances. Well analyzing informative data skills such as customers analysis.

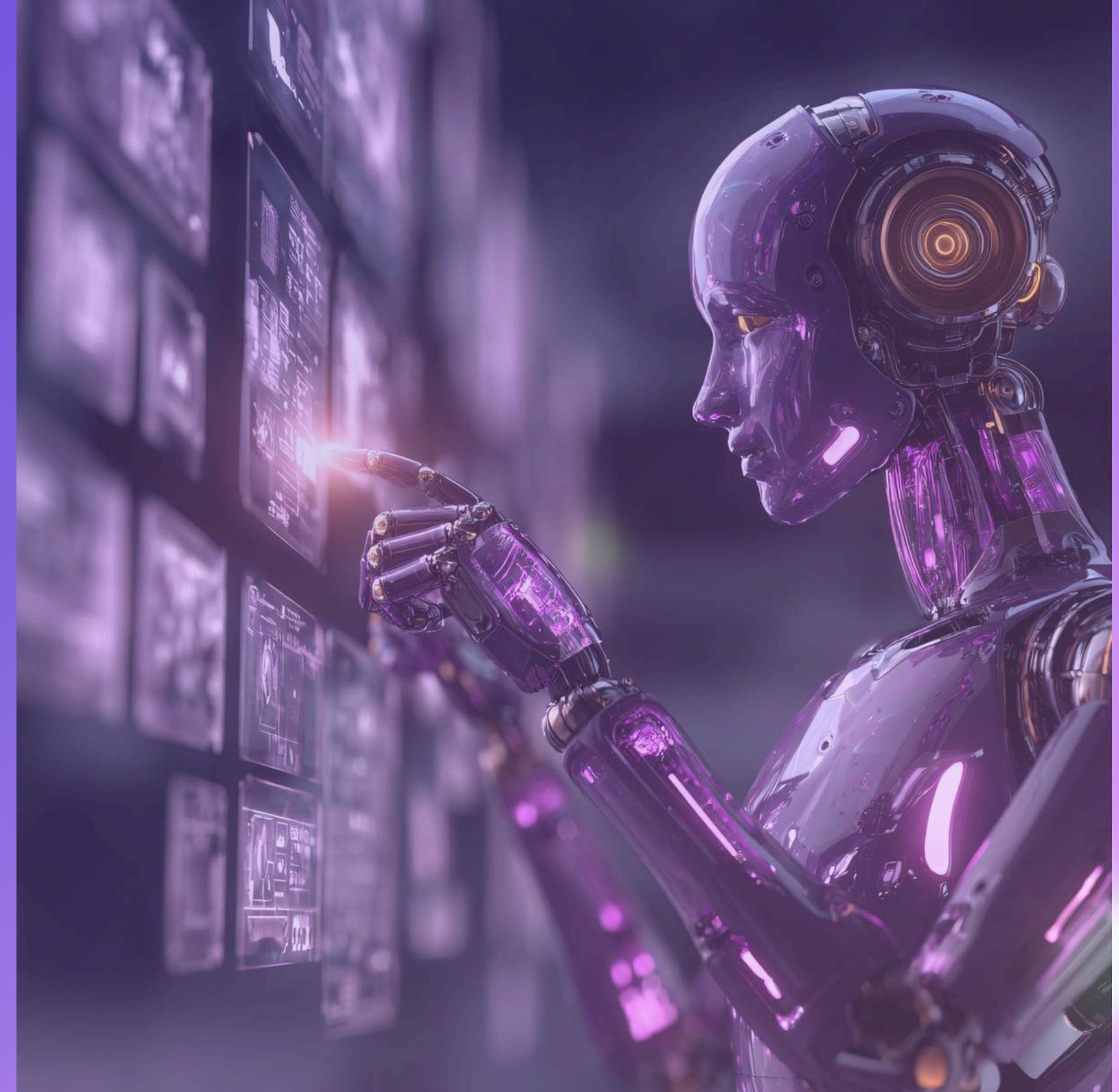
# What is AI?

- Artificial Intelligence
- Making computers think like humans.



# What is AI?

- **AI is when machines start doing tasks that usually need human intelligence.**



# What is AI?

**Every app you use today ,Swiggy, Spotify, or LinkedIn has AI working behind the scenes.**



# Introduction & Context

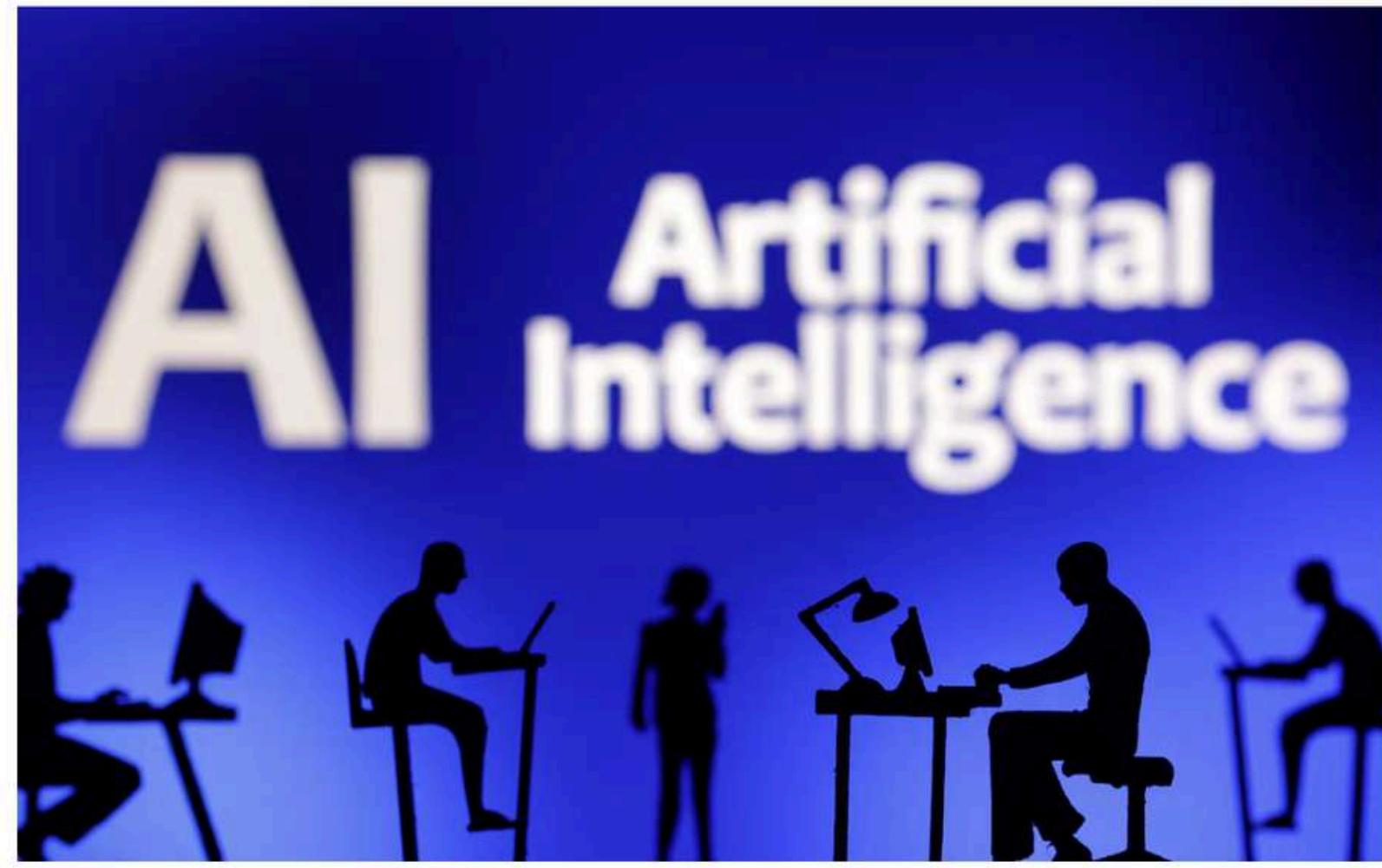
- Why AI matters today in India.

The Indian AI market is projected to grow large.

**India's AI market seen touching \$17 bln by 2027, notes Nasscom-BCG report**

By Reuters

February 20, 2024 8:51 PM GMT+5:30 · Updated February 20, 2024



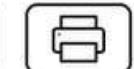
# Introduction & Context

- Why AI matters today in India.

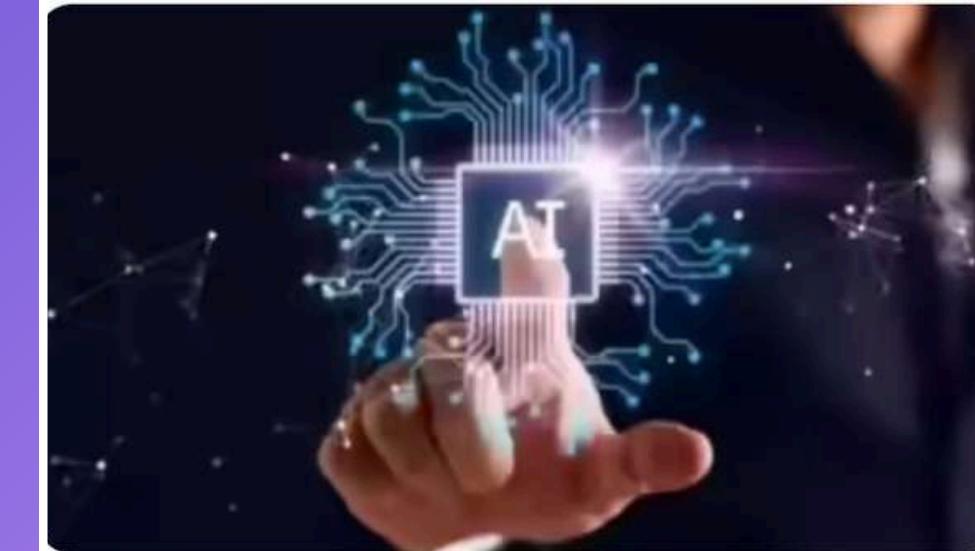
**Companies adopting AI push up demand in data, cloud, DevOps, etc**

## AI adoption to boost data, cloud role hiring

Vaitheeswaran B / TNN / Updated: Oct 21, 2024, 06:44 IST



AI adoption is driving a surge in demand for roles in data science, engineering, DevOps, and cloud computing for FY25. TeamLease Digital reports a significant increase in machine learning and natural language processing skills. The demand for AI... [Read More](#)



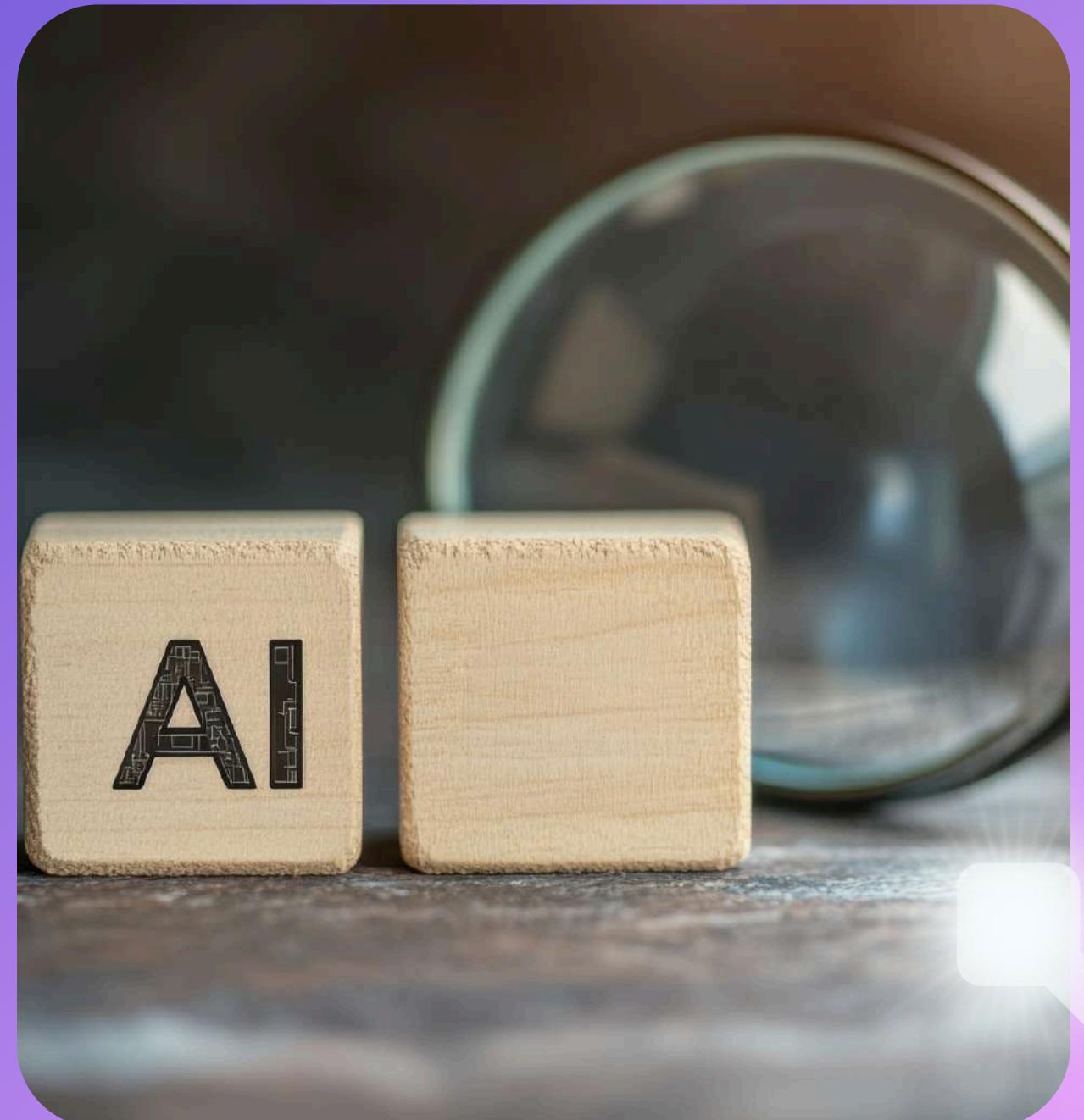
Representative image

CHENNAI: As companies navigate AI adoption, demand and salary growth for data science, data engineering, DevOps and cloud computing roles are expected to grow faster than other technology roles in FY25 compared to the previous fiscal, according to TeamLease Digital.

The tech staffing and solutions

# What does “approaching AI” means?

- You don't have to be a full AI researcher.



# What does “approaching AI” means?

- Many roles integrate AI (data pipelines, deploying models, building tools, optimizing workflows).





# What does “approaching AI” means?

**Example:**

- A DevOps engineer managing ML pipelines;
- A UX designer designing AI features;
- A Python developer writing model inference code



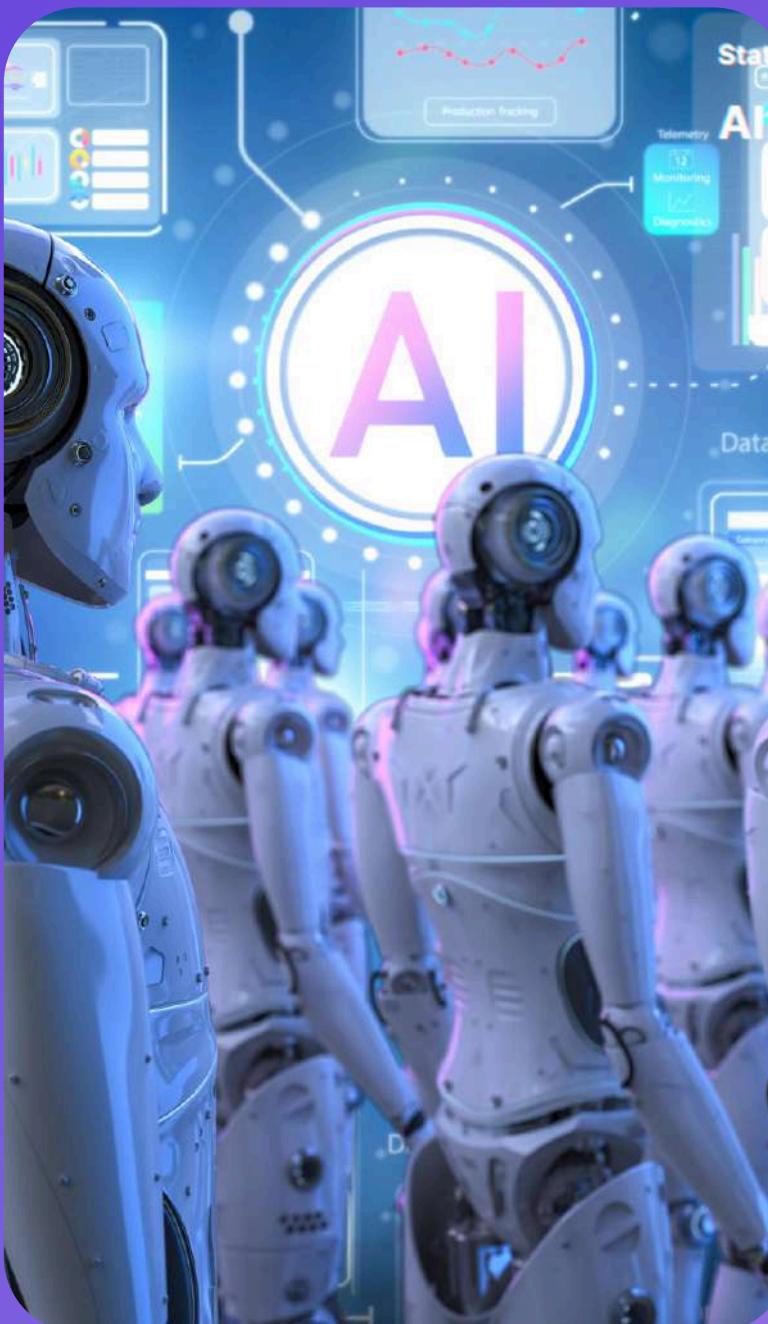
# Fields in IT & Their AI Connections

## Backend / Python Developer

- **Tasks:** Writing server logic, APIs, processing
- **Connection to AI:** Write model inference code, integrate ML models, build microservices that call AI APIs



# Fields in IT & Their AI Connections



## Data Science / ML / Data Engineering

- **Tasks:** Handling data pipelines, building models, Understands business goals
- **Connection to AI:** Core AI domain: feature engineering, training, validation, Creates visualizations and reports to guide product and marketing teams

# Fields in IT & Their AI Connections



## DevOps / MLOps / Cloud Engineering

- **Tasks:** Infrastructure, deployment, scalability
- **Connection to AI:** Deploy AI workloads, manage GPU clusters, monitor model performance

# Fields in IT & Their AI Connections

Learn about

- *Cloud Engineer* : virtual machines, databases, and storage on AWS
- *DevOps Engineer* : automation tools (like Jenkins, Docker, Kubernetes, CI/CD pipelines).
- *MLOps Engineer* : managing data, model training, deployment, and monitoring.

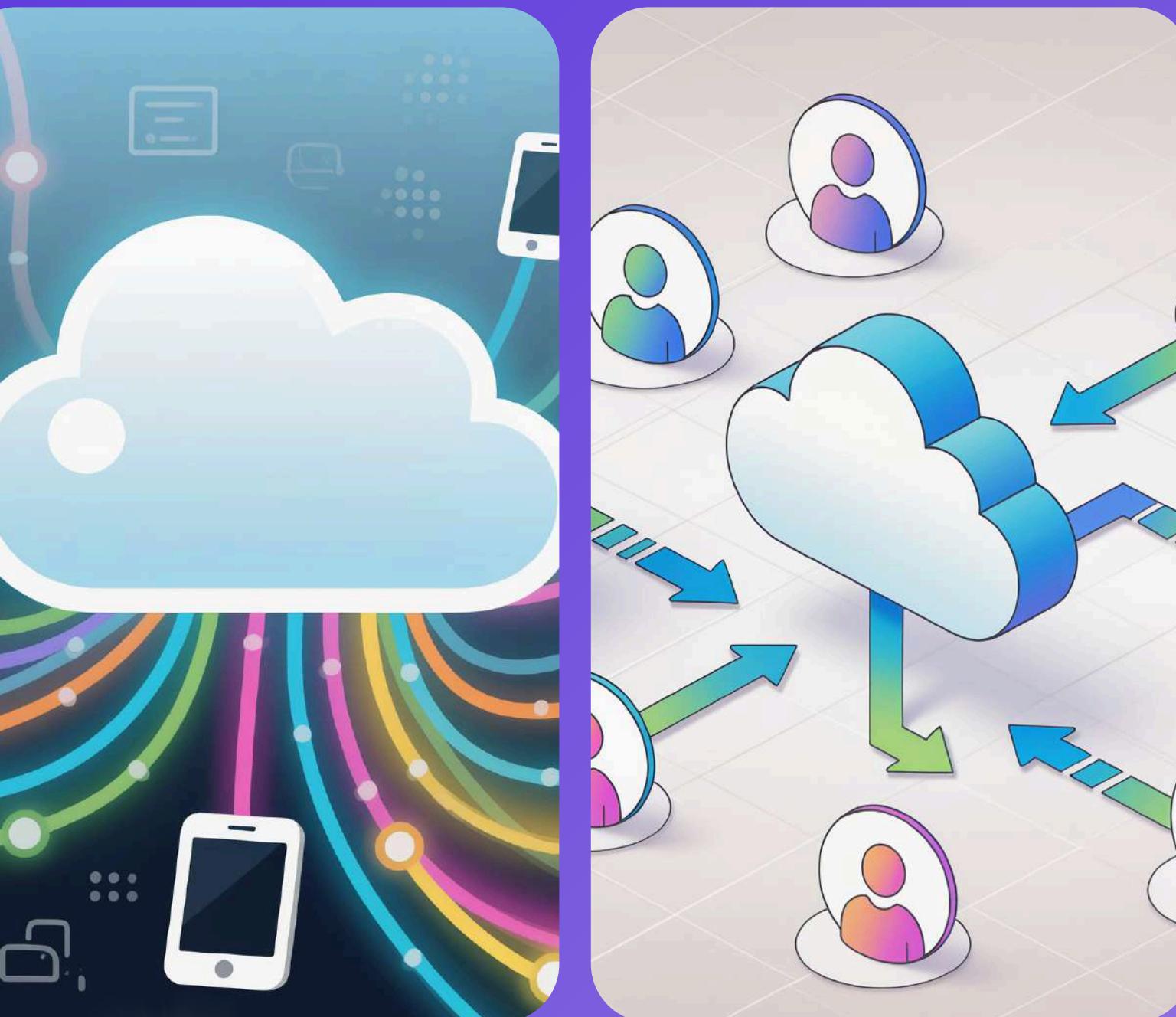


# Fields in IT & Their AI Connections



Role	Focus	Main Goal	Example
Cloud Engineer	Infrastructure	Build and manage servers & cloud setup	Create AWS EC2 instances
DevOps Engineer	Automation	Automate code deployment	Build CI/CD pipelines
MLOps Engineer	AI Lifecycle	Automate ML model training & deployment	Deploy and monitor ML models

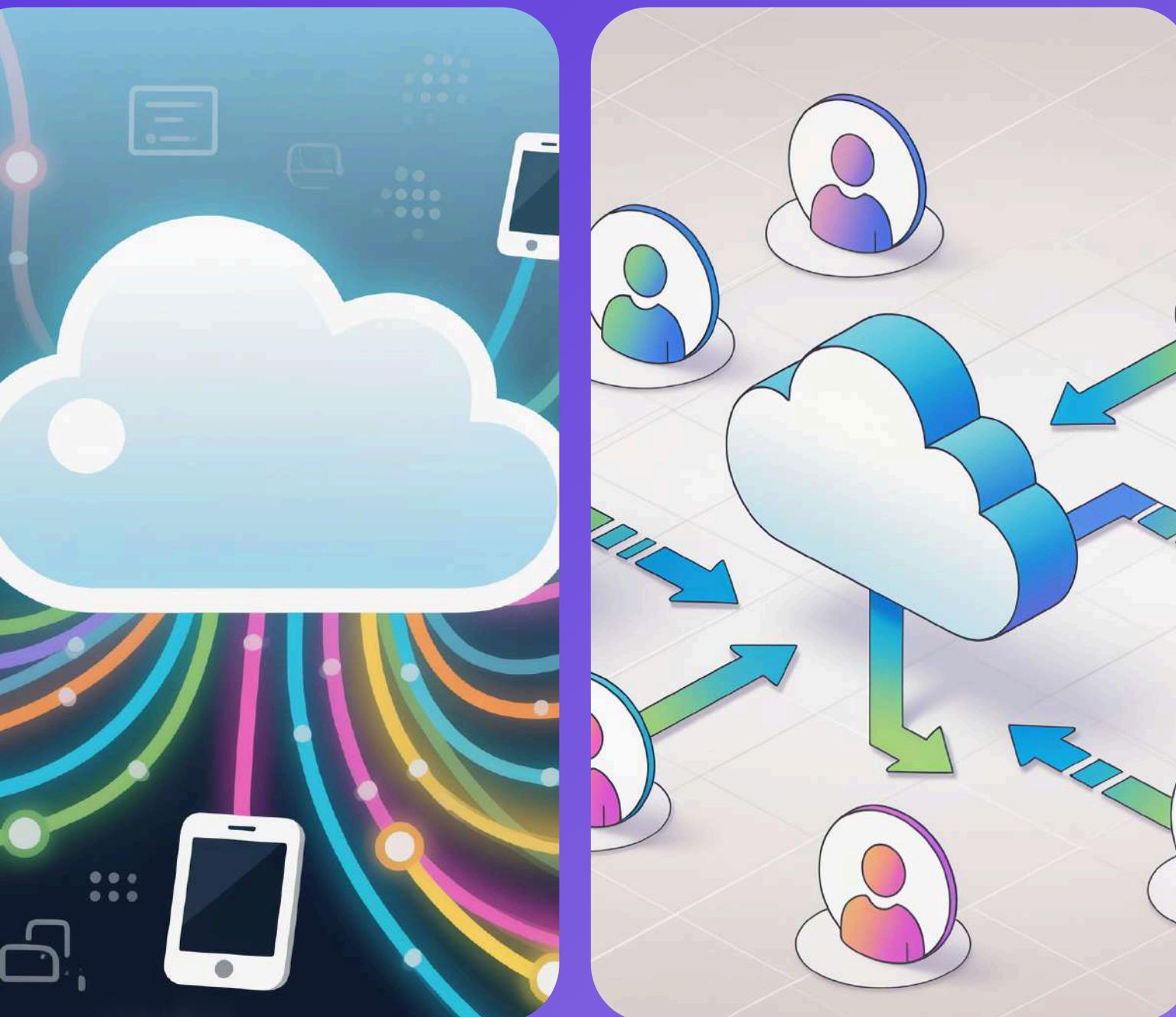
# Fields in IT & Their AI Connections



Infrastructure /Network & Security/  
Site Reliability Engineer

- **Tasks:** Servers, storage, networks
- **Connection to AI:** Provide the platform where AI runs;  
ensure performance, security

# Fields in IT & Their AI Connections



## Learn about

- Skills: Networking, firewalls, VPNs, cybersecurity best practices, encryption.
- Skills: Monitoring tools, incident management, cloud infrastructure knowledge.

# Fields in IT & Their AI Connections



## UI / UX / Frontend

- **Tasks:** Design user interfaces and interactions
- **Connection to AI:** Design AI-powered features, build chatbots, visualize model output

# Fields in IT & Their AI Connections



## QA / Testing / Automation

- **Tasks:** Testing software, ensuring quality
- **Connection to AI:** Test AI features (edge cases, fairness), build test datasets



# Fields in IT & Their AI Connections

## Product / Business / Analytics

- **Tasks:** Define product, understand user & data
- **Connection to AI:** Use AI insights, define AI features, convert data into business value

# AI Job Roles in Demand (2025)



Role	What They Do	Key Skills
Prompt Engineer	Write and optimize prompts for AI tools	NLP basics, Python, creativity
AI Specialist	Integrate AI into products	Python, APIs, AI Frameworks
AI Product Manager	Manage AI-based products	Strategy + Tech understanding

# Skills & Roadmap to Move Toward AI

Core skills everyone moving toward AI should pick up

- **Python / scripting**
- **Data handling (Pandas, SQL)**
- **Basic ML / model understanding (supervised, unsupervised)**
- **Working with APIs / REST endpoints**
- **Infrastructure knowledge (cloud, containerization)**



# Skills & Roadmap to Move Toward AI

Role-specific added skills

- **DevOps** → MLOps tools  
(Docker, Kubernetes, ML pipelines)
- **Frontend** → Model UI integration, Embedding, visualization
- **QA** → Testing ML outputs, fairness, validation
- **Product / Business** → AI ethics, cost-benefit, explainability



# Skills & Roadmap to Move Toward AI

Learning path suggestions

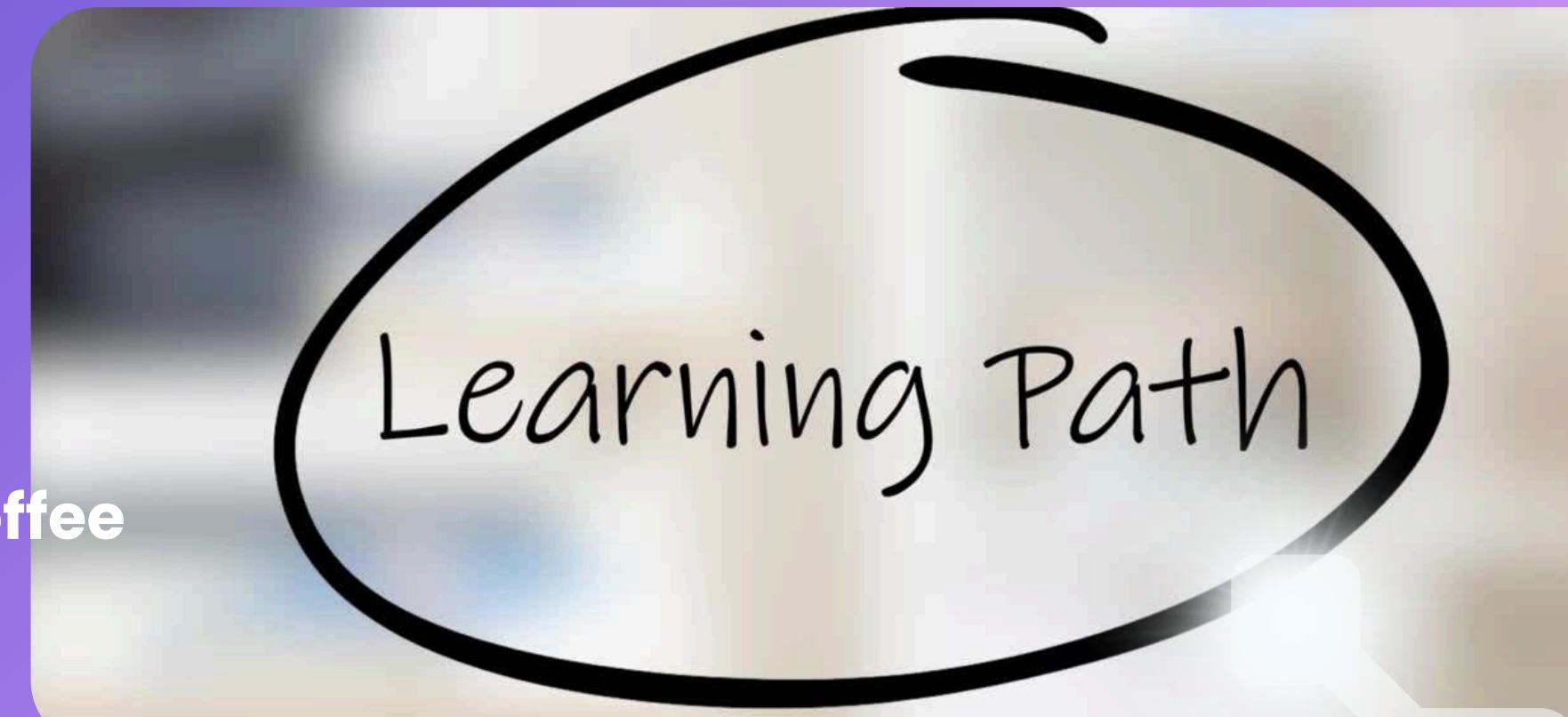
- **Basics** (Python, DevOps(Tutorials))
- **Mini projects** (use public datasets)
- **Deploy simple model** (Flask or cloud)
- **Integrate into real app**
- **Contribute, experiment, build portfolio**



# How to Prepare for AI Future

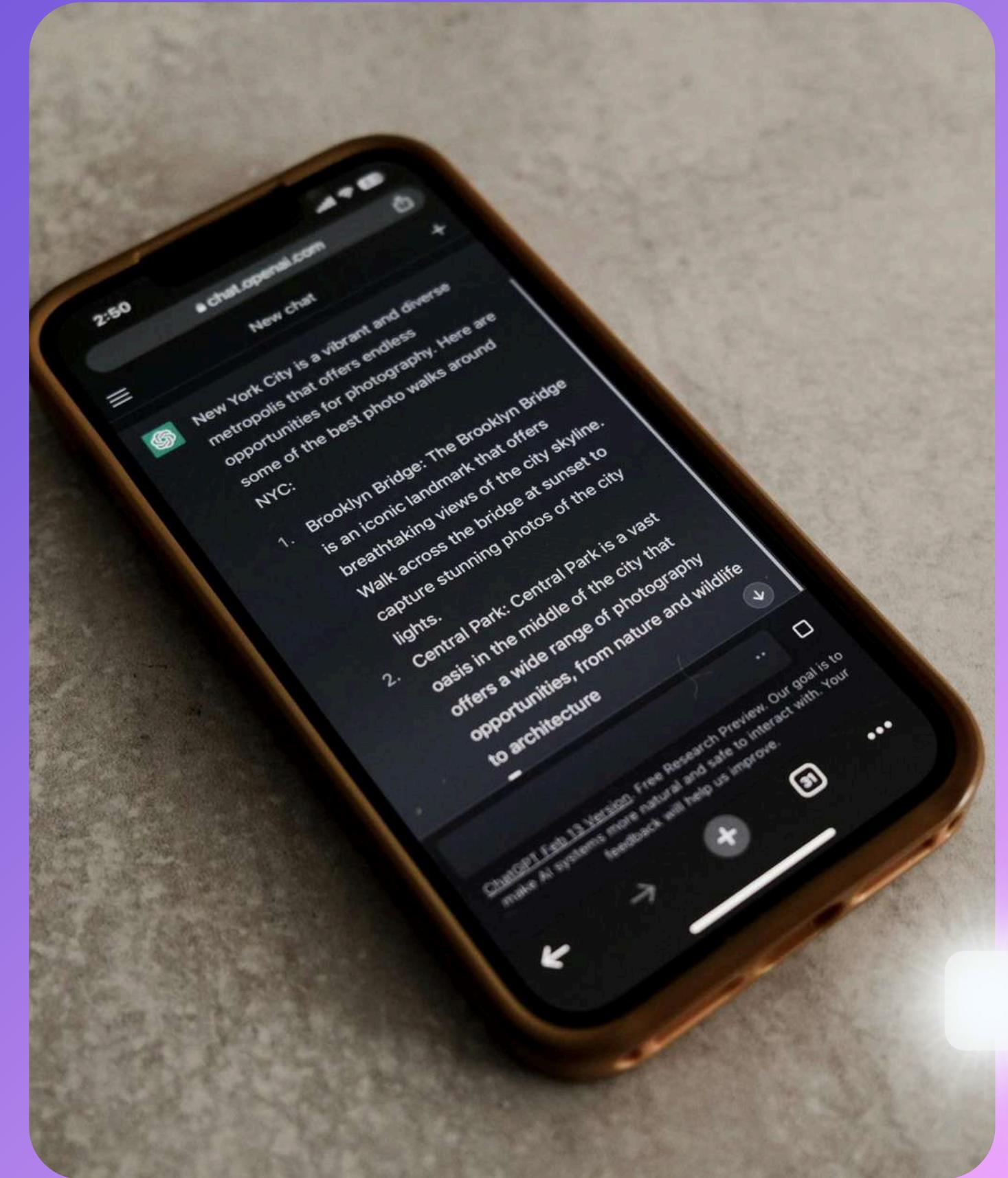
Learning path suggestions

- **Google AI Learn**
- **Kaggle**
- **Youtube channels : Krish Naik, CodeBasics, AI Coffee Break with Letitia, Simplilearn**
- **Websites / EdTech Platforms : Coursera, edX, Kaggle Learn, DataCamp, SoloLearn (Mobile app)**
- **learnwithbhawana**



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*Start small.* Don't try to build GPT from day one



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# Real Job Data & Trends in India

AI / ML roles in India are growing rapidly

[https://economictimes.indiatimes.com/tech/information-tech/it-sector-hiring-rose-5-yoy-in-june-ai-ml-see-42-spike-naukri-jobsspeak-report/articleshow/122972254.cms?utm\\_source=chatgpt.com](https://economictimes.indiatimes.com/tech/information-tech/it-sector-hiring-rose-5-yoy-in-june-ai-ml-see-42-spike-naukri-jobsspeak-report/articleshow/122972254.cms?utm_source=chatgpt.com)

The screenshot shows a news article from The Economic Times' Tech section. The header of the page includes the logo for 'THE ECONOMIC TIMES | tech', a 'My Watchlist' button, a 'Subscribe' button, and a 'Sign In' link. A red banner at the top right promotes a 'Mega Festive Offer: 40% Off!'. Below the header, there's a navigation bar with links for Home, Wealth Section - Articleshow, ETPrime, Markets, Market Data, Masterclass, News, Industry, SME, Politics, Wealth, MF, Tech (which is highlighted in red), AI, and Careers. There are also links for Opinion, NRI, Panache, and a menu icon (three horizontal lines). A secondary navigation bar below the main one includes links for AI, Web Stories, IT, Tech & Internet, Funding, Startups, Tech Bytes, Newsletters, Blogs & Opinion, and ET Soonicorns Summit. At the bottom of the page, there's a footer with links for Business News, Tech, IT, and a specific news item: 'IT sector hiring rose 5% YoY in June; AI, ML see 42% spike: Naukri JobSpeak Report'. The main content area features a large headline: 'IT sector hiring rose 5% YoY in June; AI, ML see 42% spike: Naukri JobSpeak Report'. Below the headline is a sub-headline: 'ETPrime'. At the very bottom of the page, there are social sharing options: 'Select ET as', 'FOLLOW US' (with icons for WhatsApp, Facebook, and Twitter), 'SHARE', 'FONT SIZE', and 'SAVE'.

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# Real Job Data & Trends in India

AI adoption is boosting demand for cloud, data and DevOps roles in FY25

[https://timesofindia.indiatimes.com/business/india-business/ai-adoption-to-boost-data-cloud-role-hiring/articleshow/114409158.cms?utm\\_source=chatgpt.com](https://timesofindia.indiatimes.com/business/india-business/ai-adoption-to-boost-data-cloud-role-hiring/articleshow/114409158.cms?utm_source=chatgpt.com)

The screenshot shows the homepage of The Times of India website. At the top, there are navigation links for EDITION (IN), location (GHAZIABAD), weather (21°C), and a red 'SUBSCRIBE' button. Below the header, a navigation bar includes 'Business' (selected), 'India Business', 'Budget 2025', 'Financial Literacy', 'Financial Calculators', 'International Business', 'Markets', and 'Videos'. A secondary navigation bar below the main menu lists 'BUDGET', 'IFSC', 'PAN CARD', 'AADHAAR CARD', 'IPO', 'INCOME TAX', and 'SAVINGS GROWTH CALCULATOR'. The main content area shows a breadcrumb path: NEWS / BUSINESS NEWS / INDIA BUSINESS NEWS / AI Adoption To Boost Data, Cloud Role Hiring. A 'TRENDING' section is visible with links to 'Income Tax Department', 'Bank Holidays', 'Stock market today', 'New Income Tax Bill 2025', and 'Universal Pension'. A yellow banner at the bottom of the page states 'THIS STORY IS FROM OCTOBER 21, 2024'. The main headline reads 'AI adoption to boost data, cloud role hiring'. At the bottom, there is a footer with the author's name 'Vaitheeswaran B / TNN' and the update time 'Updated: Oct 21, 2024, 06:44 IST', along with social sharing icons for 'SHARE', 'PRINT', 'AA', and 'FOLLOW US'.

# Real Job Data & Trends in India

## Top in-demand roles in India 2025

[https://talentsprint.com/blog/the-10-most-in-demand-IT-jobs-in-India-in-2025?utm\\_source=chatgpt.com](https://talentsprint.com/blog/the-10-most-in-demand-IT-jobs-in-India-in-2025?utm_source=chatgpt.com)

### The 10 Most In-Demand IT Jobs in India in 2025 (And How to Get Them)

Career Accelerator • Last Updated: March 27, 2025 • Published On: March 27, 2025



Job Role	Average Salary (per annum)	Entry-Level Salary (per annum)	Senior-Level Salary (per annum)
AI/ML Architect	₹21 - ₹44 lakhs	₹7 lakhs	₹34+ lakhs
IoT Solutions Architect	₹9 - ₹34 lakhs	NA	₹32 - ₹35 lakhs
Cloud Architect	₹8 - ₹25 lakhs	₹3 - ₹8 lakhs	₹16 - ₹25 lakhs
Data Scientist	₹7 - ₹15 lakhs	₹5 - ₹15 lakhs	₹12 - ₹23 lakhs
Cybersecurity Specialist	₹7 - ₹14 lakhs	₹3 - ₹5 lakhs	₹12- ₹14 lakhs
Blockchain Developer	₹4 - ₹10 lakhs	₹4 - ₹7 lakhs	₹5 - ₹23 lakhs
DevOps Engineer	₹5 - ₹12 lakhs	₹4 - ₹8 lakhs	₹10 - ₹22 lakhs
Full Stack Developer	₹5 - ₹10 lakhs	₹4 - ₹7 lakhs	₹10 - ₹23 lakhs
Big Data Engineer	₹5 - ₹12 lakhs	₹4 - ₹7 lakhs	₹11 - ₹22 lakhs
UI/UX Designer	₹4 - ₹7 lakhs	₹3 - ₹6 lakhs	₹7 - ₹13 lakhs

(Table Source: [Glassdoor India](#))

# Real Job Data & Trends in India

Salary ranges: Entry-level AI roles ~ ₹8–12 LPA, mid-level can move to ₹15–25 LPA or more in India

[https://talentoindia.com/blog/ai-cloud-cybersecurity-which-tech-career-should-you-choose-in-2025/?utm\\_source=chatgpt.com](https://talentoindia.com/blog/ai-cloud-cybersecurity-which-tech-career-should-you-choose-in-2025/?utm_source=chatgpt.com)



Tech Hiring

AI, Cloud, Cybersecurity: Which Tech Career Should You Choose In 2025?

## AI Salary Ranges by Experience Level

AI jobs in India pay differently based on experience. **Entry-level AI professionals** start at ₹8 lakhs to ₹12 lakhs a year. As they get more experience, *mid-level positions* can pay between ₹15 lakhs to ₹25 lakhs a year. **Senior AI professionals** can earn ₹30 lakhs to ₹50 lakhs a year or more.

## Cloud Computing Compensation in Major Indian Tech Hubs

Cloud computing jobs are sought after in places like Bangalore, Hyderabad, and Pune. **Cloud architects** and **engineers** get good pay, with *average salaries from ₹15 lakhs to ₹30 lakhs a year*. Those skilled in cloud security and migration can earn even more.

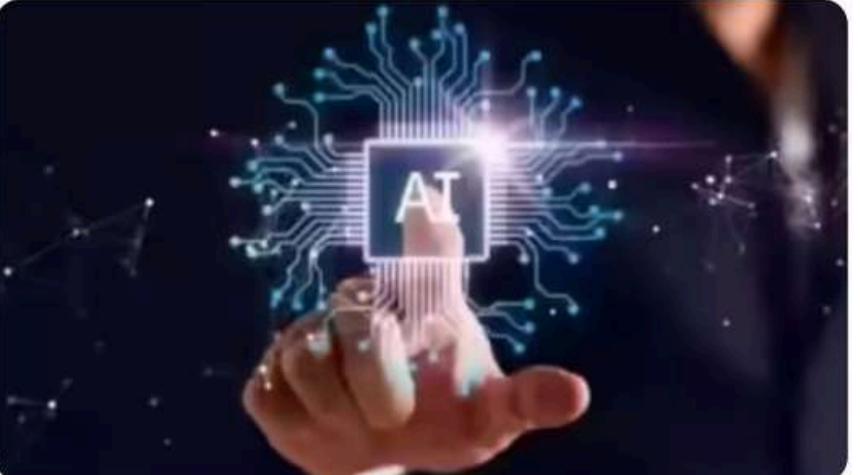
## Cybersecurity Remuneration Across Industries

Cybersecurity experts are key to protecting India's digital world. Salaries vary by industry, with **banking and finance** paying more because of the data they handle. **Cybersecurity analysts** can earn ₹8 lakhs to ₹20 lakhs a year. **Chief Information Security Officers (CISOs)** can make over ₹40 lakhs a year.

# Real Job Data & Trends in India

As companies adopt AI, even traditional roles now ask for AI/ML skills as "bonus"

TOI Business India Business Budget 2025 Financial Literacy Financial Calculators International Business



Representative image

CHENNAI: As companies navigate AI adoption, demand and salary growth for data science, data engineering, DevOps and cloud computing roles are expected to grow faster than other technology roles in FY25 compared to the previous fiscal, according to TeamLease Digital.

The tech staffing and solutions providers' snapshot analysis shows that a rise in AI, machine learning (ML), and automation skills has significantly increased the demand for data-related roles.

While 69% of job postings for data scientists mentioned ML skills in FY24, demand for natural language processing jumped from 5% in 2024 to 19% in 2025, indicating a broad industry shift toward AI-driven solutions, the company said in a note.

The demand for AI-related roles will increase 17% in the current fiscal and about 25 per cent in FY26, Neeti Sharma, chief executive of TeamLease Digital, told TOI. This includes roles such as data scientist, analyst and engineer, big data developer, AI/ML engineer, database administrator, devOps, IoT and automation engineer.

The migration to cloud infrastructures has increased hiring in roles related to cloud engineering, development, and architecture.

[https://timesofindia.indiatimes.com/business/india-business/ai-adoption-to-boost-data-cloud-role-hiring/articleshow/114409158.cms?utm\\_source=chatgpt.com](https://timesofindia.indiatimes.com/business/india-business/ai-adoption-to-boost-data-cloud-role-hiring/articleshow/114409158.cms?utm_source=chatgpt.com)

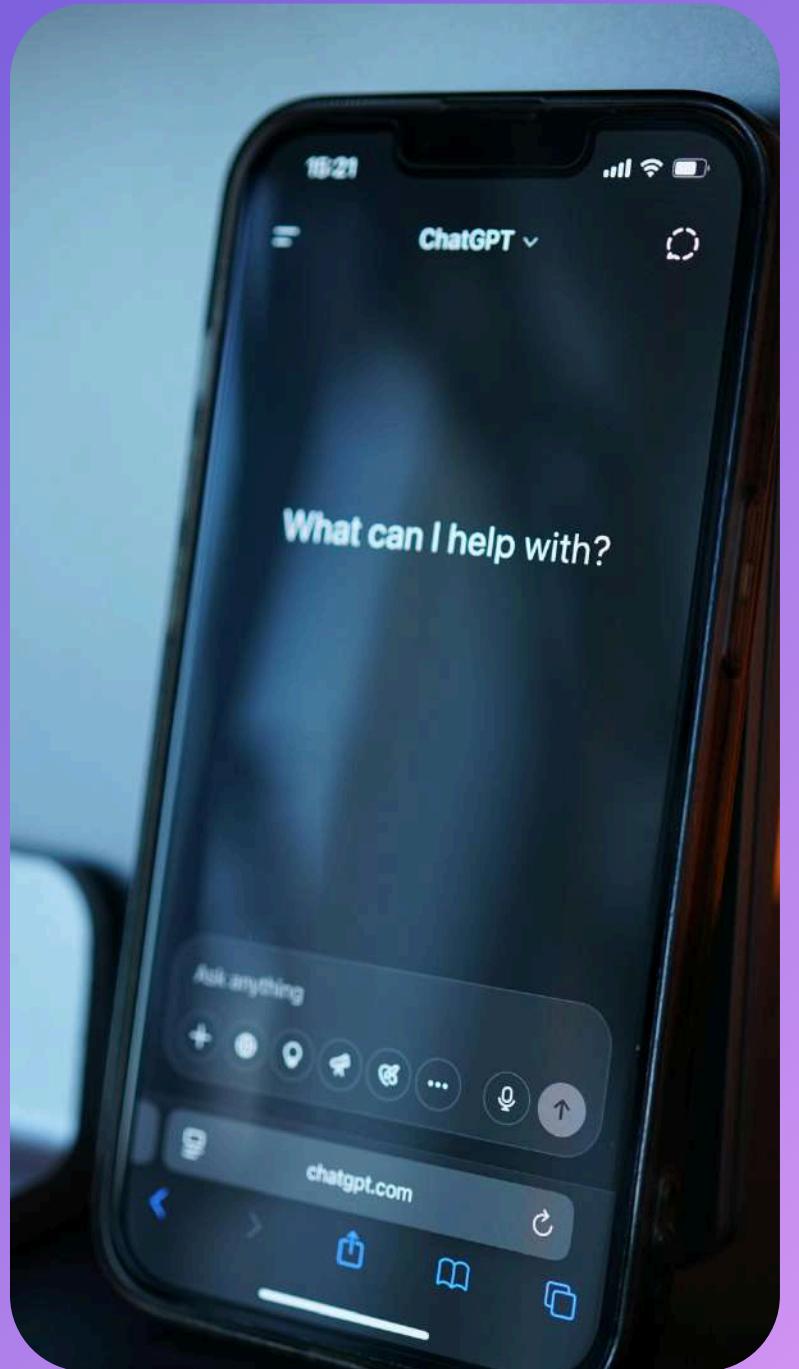
# Which domain do you relate most with?





## AI is not replacing IT jobs ,it's reshaping them.

If you learn to collaborate with AI, your career is future-proof.



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THANK YOU