AI Overview:

Learning AI gives you the leverage to work across several industries with better job security. In a world increasingly driven by data, AI proficiency allows you to work with systems that make smarter decisions, predict trends, and automate systems. AI knowledge makes you a valuable asset to any organization looking to stay competitive in the future. AI spreads across almost every industry that uses modern technology like computers. By mastering AI, you position yourself at the forefront of innovation.

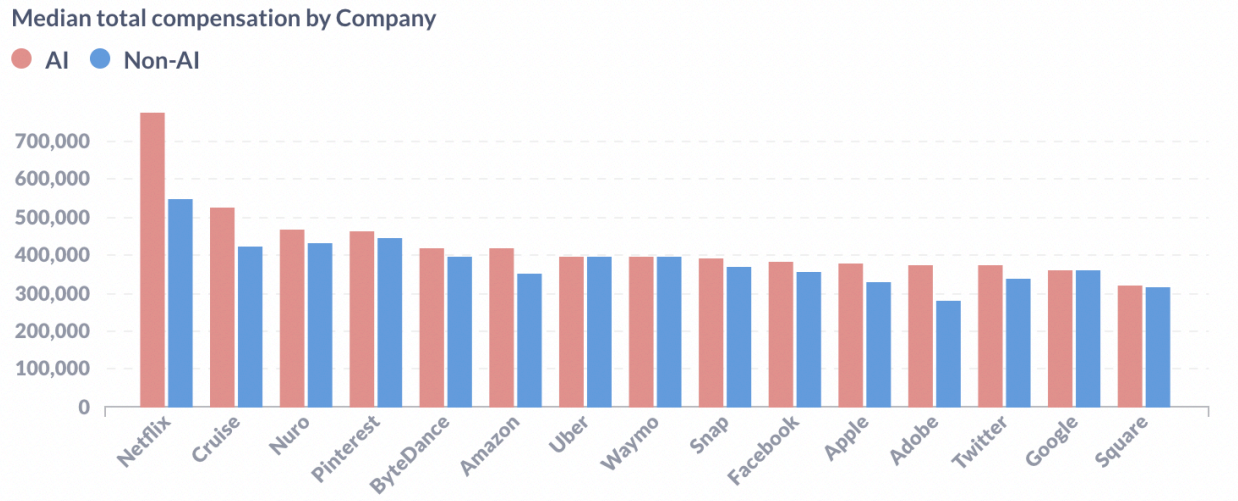
AI job salaries:

Here's what you can expect to earn averagely from common AI positions across numerous years, according to Glassdoor. Note that salaries vary based on factors like your location, experience, company and more. The first three to five years are reflected more accurately than later years. As with other occupations, the more years you dedicate to a field the higher your salary and upward mobility. Again, this depends on several factors. The table aims to give you an idea rather than a *fact*.

	0-1 year	1-3 years	4-6 years	7-9 years	10-14 years
AI engineer [2]	$100,324	$104,196	$115,053	$123,989	$132,496
AI researcher [3]	$88,713	$99,467	$112,453	$121,630	$134,231
Machine learning engineer [4]	$105,418	$114,027	$120,368	$127,977	$135,388
Robotics engineer [5]	$76,453	$76,453	$92,791	$97,121	$108,230
Software engineer [6]	$94,940	$99,370	$105,114	$112,808	$126,369
Data scientist [7]	$107,150	$107,150	$116,717	$125,259	$134,922

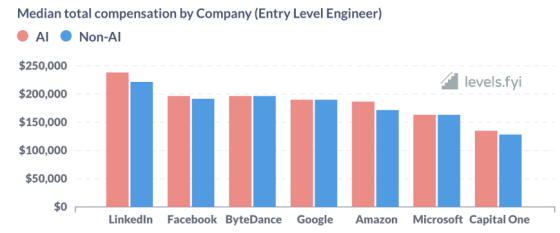
Source: *https://www.coursera.org/articles/artificial-intelligence-salary*

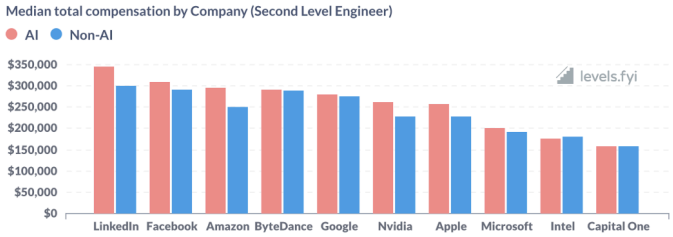
.The figure below shows the highest paying companies for more senior roles.

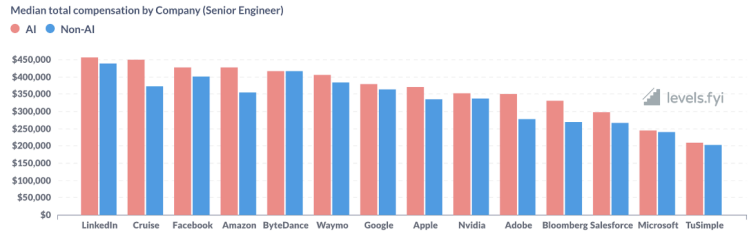


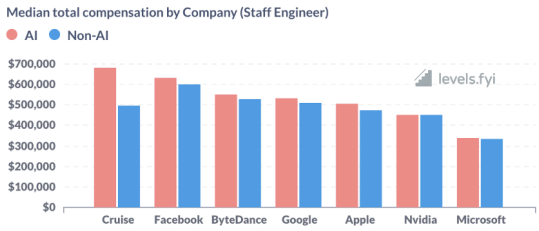
Source: https://www.levels.fyi/blog/ai-engineer-compensation.html

Salaries vary across industries and companies. The top tech companies pay higher on the average. *Source:* https://www.levels.fyi/blog/ai-engineer-compensation-q1-2024.html



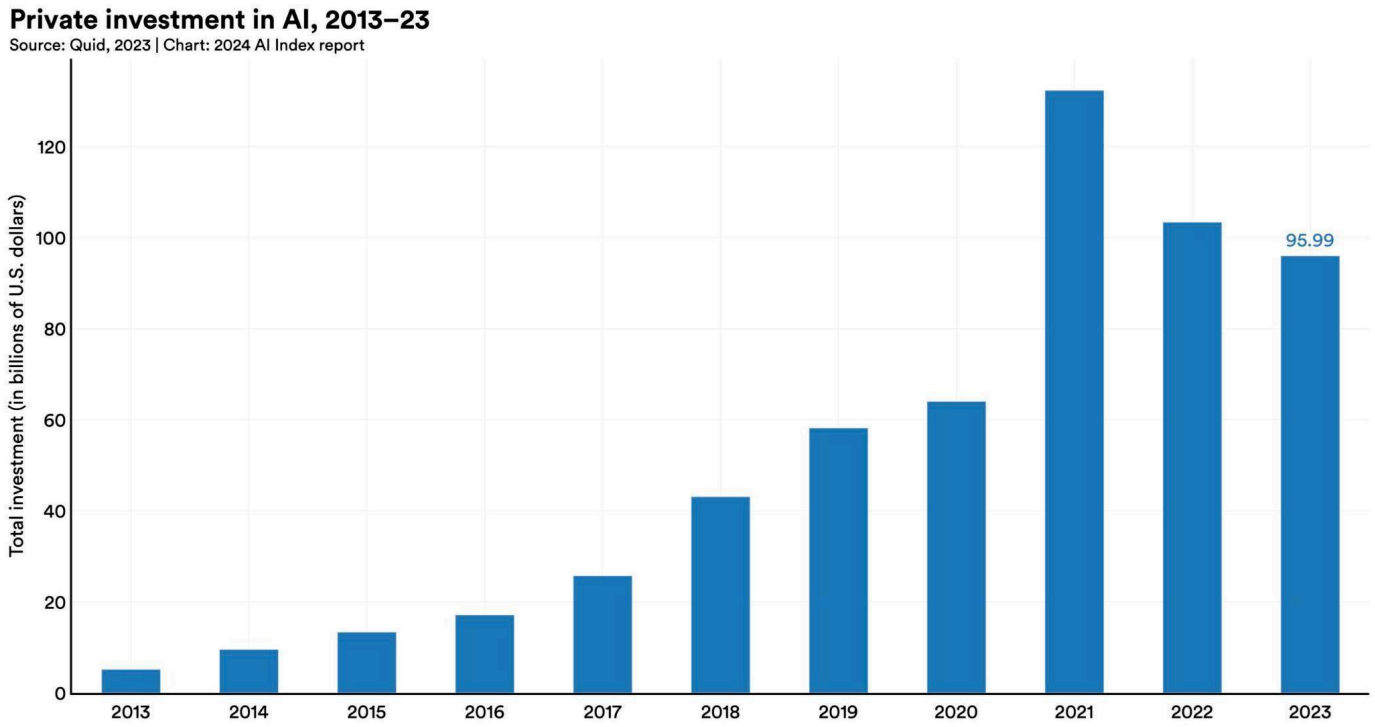




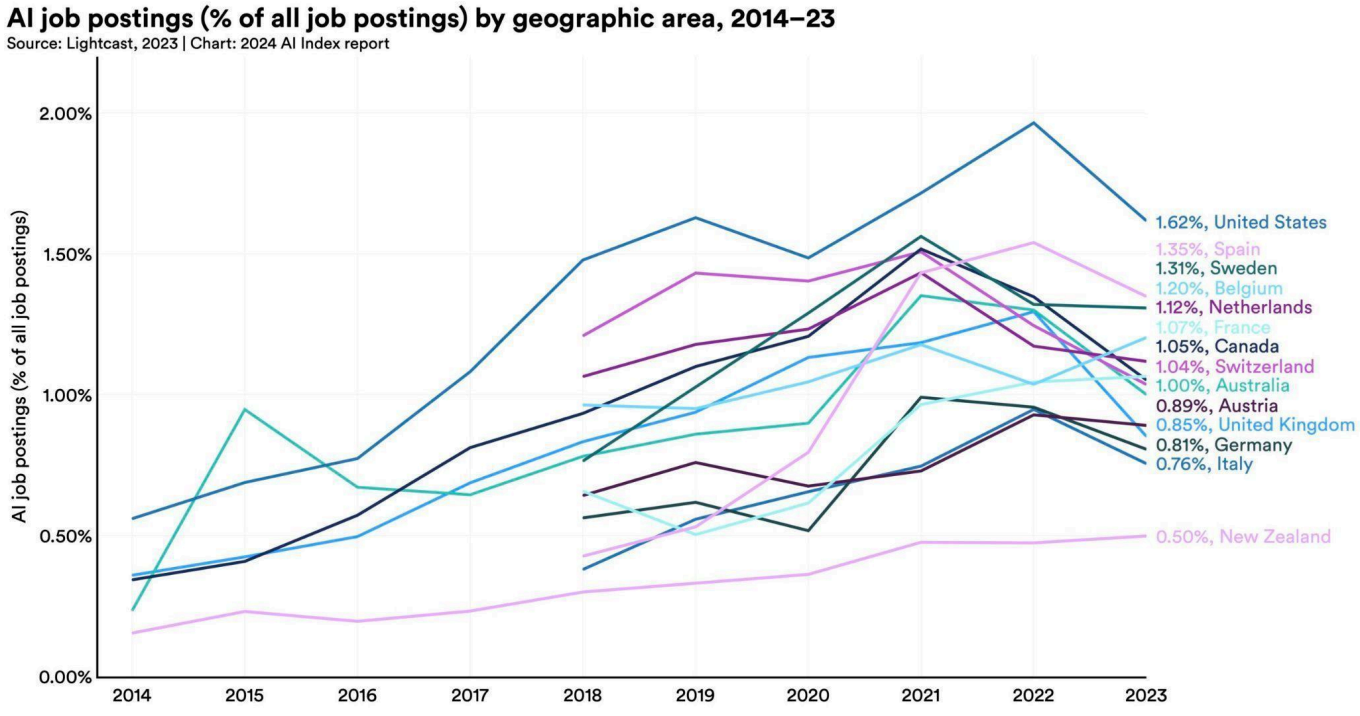


AI Trends:

Major players in the generative AI space, including OpenAI, Anthropic, Hugging Face, and Inflection, reported substantial fundraising rounds. Many companies are expanding their AI teams or creating new teams to invest in AI. **The Top 10 Most Valuable** companies are now dominated by AI-based organizations. Here is a graph showing an influx of investor funds into AI. Source: https://aiindex.stanford.edu/report/



Gradual increase in AI trends shows an inevitable domination of AI in the coming years across industries.



Possible Career Paths:

Below are a few roles that require AI knowledge to lead machine learning and deep learning efforts in companies. The list is not exhaustive but will give you a fair idea of the field.

- *Project Manager*:
  Help companies understand how to apply AI/ML to their business. Identify opportunities, develop strategies, and write project scopes.

- *Product Manager*:
  Define requirements for AI/ML products, work with engineers and stakeholders, develop roadmaps, go-to-market plans.

- *Solutions Architect*:
  Design AI/ML solutions and systems architecture. Understand use cases and data requirements to recommend technologies.

- *AI/ML Researcher*:
  Conduct research on AI/ML algorithms, techniques and applications. Perform literature reviews, analyze research papers, identify trends.

- *AI/ML Engineer*:
  Machine learning engineers design, develop, and deploy machine learning models and systems. They work on tasks such as data preprocessing, feature engineering, model training, and model optimization.

- *Data Analyst*:
  Collect, clean, label, analyze and prepare datasets for training AI models. Statistically analyze model performance.

- *AI/ML Sales Engineer*:
  Understand customer needs to match them with the company's AI products and services. Present, demonstrate and benchmark AI solutions.

- *Software Developer:*
  Implement AI logic into software tools. This requires an end-to-end knowledge of both software development and adequate knowledge of AI deployment.

Mentorship Goal:

- *Who are our mentees?*
  Beginners, professionals looking to switch careers or upgrade their AI knowledge, students, entrepreneurs etc

- *What are their specific goals?*
  Getting certified in AI, job placements, or AI knowledge enhancement

Modules & Curriculum:

Modules

- **GK Module:**

  General knowledge (GK) Module provides general AI knowledge for individuals looking to learn AI basics to help them build AI solutions. Over the course of ***14 weeks***, the curriculum will cover how general AI systems work and how to implement easy AI solutions without coding. This is suitable for roles like Product Manager, Project Manager, AI/ML Sales Engineer or any role that requires little to no technical-know how.

- **TK Module:**

  Technical knowledge (TK) Module provides a more thorough and technical understanding of AI and how to implement AI systems from start to end. You'll learn the foundational understanding of machine learning and write python programs to execute AI models end-to-end. The module spans ***20 weeks*** of collaborative training. This is suitable for roles like Solutions Architect, AI/ML Engineer, AI/ML Researcher and any roles that require more technical understanding.

Curriculum

- Each Module contains foundational topics in AI and machine learning. The curriculum is divided into Beginner, Intermediate, and Advanced levels.
- Hands-on projects and practical applications, including coding.
- Resources for further learning, like books, articles, and online courses.
- Video recording sessions of tutoring will be shared with mentees

Program Benefits:

Specified Period Training:
The AI program is structured to deliver comprehensive training within a specified timeframe. This ensures that you acquire essential skills efficiently and effectively, allowing you to quickly transition into the AI industry. The specified time frame means you're dedicated to finishing the program rather than a study-as-you go approach which can take much longer.

Constant Reminders:
Provide regular reminders and updates to keep you on track throughout the course. This helps maintain your momentum and ensures you stay engaged with the learning material.

Availability and Quick Response:
Mentors and support teams are readily available to address your questions and concerns. With prompt responses, you can overcome any learning obstacles swiftly, ensuring a smooth educational experience.

- Weekly tutor sessions over online calls like Zoom or Google Meet
- Unlimited Q&A via chat
- Hands-on support

Helpful Communication and Continued Assistance:
Even after completing the course, the support doesn't end. We offer continued assistance and helpful communication to guide you through your career journey, providing resources and advice as needed.

Career Advice and Resume Curation:
The program includes personalized career advice and guidance that reflect real-world scenarios. More information can be found in the Career Preparation and Guidance section.

Hands-On Labs and Real-World Projects:
The curriculum emphasizes practical experience through hands-on labs and real-world projects. This approach ensures you can apply theoretical knowledge to actual AI problems, making you job-ready upon completion.

Career Preparation and Guidance:

- *Resume Building:*
  Teach how to craft a compelling resume tailored to AI and machine learning roles. Highlight the importance of showcasing relevant projects, skills, and experiences. effectively, making you a strong candidate for AI roles.

- *Portfolio Development:*
  Encourage mentees to create a portfolio of their projects on platforms like GitHub. Include diverse projects demonstrating various skills and knowledge areas in AI.

- *Networking:*
  Guide mentees on how to effectively network within the AI community.
  Recommend joining professional associations, attending meetups, and participating in online forums.

- *Interview Preparation:*

Conduct mock interviews focusing on both technical and situation-based questions.
Provide resources for common interview questions and coding challenges. This practice helps build your confidence and refine your interview skills, increasing your chances of success.

- *Certifications and Further Education:*
  Advise on relevant certifications that can enhance mentee's credentials (e.g.,Google Cloud Professional ML Certification, AWS Certified Machine Learning).
  Suggest continuous learning through online courses, workshops, and conferences.

- *Job Search Strategies:*
  Share tips on how to search for AI job openings, including using job boards, company websites, and LinkedIn.
  Help mentess understand different AI roles and what companies are looking for.

- *Mentorship and Support:*
  Provide ongoing mentorship even after the course ends.
  A community or alumni network for peer support and continuous learning.

- *Industry Insights:*
  Share mentorship experiences and insights about working in the AI field.
  Discuss industry trends, emerging technologies, and potential career paths.

- *Workshops and Hackathons:*
  Organize or encourage participation in AI workshops and hackathons.
  These events provide hands-on experience and opportunities to work on real-world problems.

Helpful AI Introduction Reads:

What is artificial intelligence (AI)?
https://www.ibm.com/topics/artificial-intelligence

What is AI (artificial intelligence)?
https://www.mckinsey.com/featured-insights/mckinsey-explainers/what-is-ai

What is AI? A Quick-Start Guide For Beginners
https://www.datacamp.com/blog/what-is-ai-quick-start-guide-for-beginners

Bird's-Eye View Of Artificial Intelligence, Machine Learning, Neural Networks & Language

Part 1:
https://medium.com/geekculture/birds-eye-view-of-artificial-intelligence-machine-learning-neural-networks-language-part-1-802b35cf1873
Part 2:
https://medium.com/geekculture/birds-eye-view-of-artificial-intelligence-machine-learning-neural-networks-language-part-2-a53d93495de1
Part 3:
https://medium.com/geekculture/birds-eye-view-of-artificial-intelligence-machine-learning-neural-networks-language-part-3-96dacf9ba74b

Easy AI Courses online to get you started:

AI For Business Specialization
AI for Everyone: https://www.coursera.org/learn/ai-for-everyone
Databricks: Generative AI Fundamentals

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