



# Tech Jobs

Reading & Vocabulary Development  
for CS50x Iran Learners

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## □ چطور مطالعه کنم؟

### ▪ قدم اول:

در بخش اول (Reading)، یک بار متن مقاله رو بخون. سعی نکن از همون اول همه کلمات رو بفهمی؛ فقط با کلیت متن آشنا شو.

### ▪ قدم دوم:

در بخش بعدی نگاهی به لیست لغات و اصطلاحات متن بنداز. بین کدوم ها برای آشنا هستن و کدام ها نه. بعضی از کلمات نآشنا رو میتوانی با توجه به جمله و کلمات اطرافش حدس بزنی. از طرفی، بعضی کلمات ممکنه برای آشنا باشن، اما معنیشون توی این متن فرق کنه.

### ▪ قدم سوم:

در بخش های بعد، توضیح و مثال هایی برای اون کلمات آورده شده. بعضی از لغت ها ممکنه مستقیماً توی متن نباشن، اما چون به موضوع مرتبط بودن، فرصت خوبی بوده تا باهاشون آشنا شی.

این روند تا پایان مقاله ادامه داره. میتوانی بسته به نیاز و وقتی که داری، با فاصله های زمانی دلخواه مطالعه کنی. هر وقت خسته شدی، به خودت استراحت بد.

## □ درباره لغات مقاله

کلمات مقاله ها بر اساس سطح زبان دسته بندی نشده، اما به طور کلی در سه گروه قرار می‌گیرن:

1. کلمات پر تکرار و رایج که در اثر مجاورت زیاد، تکرار و به مرور زمان در ذهن جا می‌افتن.
2. کلمات تخصصی حوضه IT و کامپیوتر که با دیدن در متن های مرتبط کم کم یاد می‌گیریشون.
3. کلماتی که کمتر رایج هستن که شاید فقط چند بار در متن های خاص ببینی.

### ❖ نکته مهم

دوست من هیچ نیازی نیست این کلمات و اصطلاحات رو حفظ کنی. هدف فقط اینه که مسیر یادگیریات رو هموار تر کنیم. هر چیزی که با تکرار و توجه وارد ذهن بشه، موندگار تر میشه.

### لینک مقاله کامل

<https://www.geeksforgeeks.org/top-highest-paying-tech-jobs/>



Trending Now DSA Web Tech Foundational Courses Data Science Practice Problem Python



## Top 20 Highest Paying Tech Jobs in 2025

Last Updated : 21 Nov, 2024



Tech jobs are a great option for those interested in programming and computers, as they form a leading employment sector with vast returns for employees. The **Information Technology** (IT) sector is booming, contributing around 7.5% to **India's GDP** in **FY2024**. The industry's revenue reached **\$253.9 billion**, with IT exports generating **\$199 billion** during the same period. Additionally, IT spending in India is expected to grow by **11.1%** in 2025, reaching **\$138.6 billion**.

Currently, technology is dominating the world, and tech jobs are ever-increasing in various lucrative fields, ranging from data analysis and machine learning to cloud development and so on.



The **top 20 highest paying tech jobs** in the current scenario are provided below to help you know the market better and maintain your edge in this super-competitive environment.

### Jobs in Tech

According to the latest report from the **Bureau of Labor Statistics (BLS)**, the median annual wage for computer science and technology jobs in **2022** was **\$97,430**, more than double the median wage for all other occupations. Many tech jobs can offer salaries of **\$100,000** or more with just a few years of experience.

## □ Phrases & Vocabulary

geek

DSA

be interested in something  
a leading employment sector

vast returns

employee

booming

contribute

India's GDP

FY2024

industry's revenue

generate money

expect

technology is dominating the world

ever increasing

lucrative fields

maintain

your edge

super-competitive environment

according to

median annual wage

occupation

a few years of experience

leading: main, first, foremost, dominant

provided below: below mentioned

and so on: and so forth, etcetera (etc.)

additionally: also, in addition

currently: at the present time

various: several and different

**vast**

extremely big

vast audience

vast amounts/sums

vast majority

Synonyms:

enormous, huge

**employee**

a person who is paid to work for someone else

have/recruit/train employees

full-time/part-time employee

senior/experienced employee

Synonyms:

worker, staff member, wage earner

**wage**

an amount of money that is paid

to an employee

a very low/high wage

earn/get a wage

pay a wage

a wage cut/increase/rise

an hourly/daily/weekly/annual wage

**edge (advantage)**

an advantage over somebody/something

have the edge over

**booming (successful)**

increasing or growing very quickly

business is booming

## DSA

Data Structures and Algorithms  
a fundamental part of Computer Science that  
teaches you how to think and solve complex  
problems systematically

## GDP

Gross Domestic Product  
the total value of goods and services produced  
in a country in a year

## FY

Financial/Fiscal Year  
a period of twelve months (not always Jan to  
Dec) for which a business, government, etc.  
plans its management of money

## sector (economic area)

one of the areas into which the economic  
activity of a country is divided  
public/private sector  
the agricultural/industrial/manufacturing sector  
the banking/business/financial sector  
the IT/technology/telecommunications sector

**contribute**

to give (support, money, etc.) for a common purpose or fund

contribute towards

contribute something to something

Synonyms:

give, donate

**revenue**

the income that a government or company receives regularly

revenue(s) from something

generate/bring in/raise revenue(s)

**generate (produce)**

generate income/money/revenue/popularity

generate heat/electricity/power

generate (new) ideas/concepts/plans

is generating a buzz: to draw positive attention and interest in something

**dominate**

have power or control over

dominate the market/sector

**maintain**

to continue to have; to keep in existence

Synonyms:

Keep, keep in existence

**lucrative**

(especially of a job, or activity) producing a lot of money

lucrative career

lucrative market/business/deal

extremely/highly/very lucrative

Synonyms:

Profitable, high-paying

## **ever increasing**

always becoming larger  
ever-increasing demand  
ever-increasing price/number  
ever-increasing dependence

## **competitive**

involving competition  
competitive sports/price/rates/market  
highly/extremely/fiercely competitive

### **according to**

We only use according to when we refer to an opinion from someone else or somewhere else. According to the instructions, you'll need to buy some glue.

When we talk about our opinion, we use phrases such as 'in my opinion' or 'in our view':  
In my opinion, they were not very polite.

Not ~~According to me~~...

Synonyms:  
as reported by, as stated by

### **according to plan**

Something that happens according to plan happens in the way it was intended to:  
Did it all go according to plan?

# interested in something

These words are used to describe wanting to give your attention to something and learn more about it.

If you are **interested** in something, you want to give your attention to it and discover more about it.

- I've always been interested in astronomy.
- You don't seem that interested in what I'm saying.

If someone is very interested in something, you can use the adjective **fascinated**.

- They were absolutely fascinated by the game.
- I was fascinated to hear about his travels in Japan.

If you are **absorbed in** something, or **engrossed in** or **with** something, especially a book, you are very interested in it and giving it your full attention.

Informally you can say that you are **wrapped up** in someone or something. All three of these phrases imply that you are ignoring everything and everyone else.

- I was so absorbed in the novel that I completely missed my subway stop.
- They were so engrossed with the puzzle they missed my phone call.
- There's no pulling him away from the conversation - he's thoroughly engrossed in it.
- She's been completely wrapped up in her home life since getting married.

# a job

These words describe regular work that a person does to earn money.

The most common word for this is **job**. Job can refer to a type of work that you do.

- She got a job as a lab assistant.
- He was offered the job.

A more formal alternative is the noun **occupation**.

- Please fill in your name, age, and occupation.

The nouns **post** and **position** are often used to talk about a particular job within an organization.

- There's a post for a lecturer open in my department.
- She's applied for a part-time editing position.

The noun **career** is sometimes used to describe a job that a person does for a long period in their life.

- She's had a very successful career in marketing.

An **internship** is a job that someone does for a short time in order to learn more about a particular kind of work.

- She's got a year's internship before she can get her license to practice medicine.

## □ Confusing Words

### accept, except, expect

**Accept** is always used as a verb, primarily meaning to agree to take something (like a job or gift).

**Except** is normally used as a preposition, meaning but, or as a conjunction, meaning with the omission of or only.

**Expect** is almost always used as a verb, primarily meaning to believe something will happen.

- I accepted the job with McDonalds for the summer.
- All months have 30 or more days except February, which has 28.
- Gosh, I didn't expect to see you here!

## experience, experiment

We use **experience** as a verb when something happens to us, or we feel it. It is rather formal.

- I experienced a feeling of deep sadness as I entered the refugee camp.
- Do you have any experience of/in working with kids?
- Customers have experienced problems in finding parking places at the mall.

**Experiment** as a verb means ‘try something in order to discover what it is like or to find out more about it.

- Some people believe that experiments on animals should be banned.
- Scientists are conducting experiments to test the effectiveness of the new drug.
- I wish the government would stop experimenting with new teaching methods for our kids every couple of years.

## □ Exercise 1

Fill in the blanks with the words below. Some word forms may need to be changed.

vast employee wage edge booming  
contribute revenue dominate ever-increasing  
sector maintain lucrative (according to)

1. Her family has \_\_\_\_\_ \$50,000 to the fund.
2. Some of their \_\_\_\_\_ do not have insurance.
3. Because of her experience she has the \_\_\_\_\_ over the other applicants.
4. He gets/earns/is paid a good \_\_\_\_\_, because he works for a fair employer.
5. \_\_\_\_\_ the instructions, you'll need to buy some glue.
6. Business is \_\_\_\_\_ at the moment.
7. Taxes provide most of the government's \_\_\_\_\_.
8. The company \_\_\_\_\_ the market for operating system software.
9. The \_\_\_\_\_ demand for private cars could be halted by more investment in public transport.
10. A \_\_\_\_\_ audience watched the broadcast.
11. He has found it difficult to \_\_\_\_\_ a healthy weight.
12. In the financial \_\_\_\_\_, banks and insurance companies have both lost a lot of money.
13. He gave up a \_\_\_\_\_ career as a lawyer to look after his kids.

[Answer Key](#)

The tech industry remains one of the largest and highest-earning sectors globally. As of 2025, the tech industry's worth is estimated at **\$5.5 trillion USD**, contributing **approximately 10.5%** of the global GDP. The US tech market accounts for **35%** of the total global market, solidifying its position as a dominant player in the industry.

## Top 20 Highest Paying Tech Jobs 2025

Here is the list of some of the high demand and highest paying tech jobs in the world 2025. We have mentioned the details about the job and skills needed for the role. Find out what interests you the most.

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## □ Phrases & Vocabulary

remain  
the tech industry's worth  
estimate  
solidifying its position  
industry  
high demand jobs  
skills needed for the role  
find out what interests you the most

specialist  
scientist  
manager  
designer  
engineer  
developer  
architect  
analyst  
user experience  
-user interface  
reliability  
full stack  
data warehouse  
entry-level tech jobs  
tips

dominant: the adjective of “dominate”  
DevOps: Development and Operations  
approximately: about, roughly  
as of 2025: from 2025  
AI: Artificial Intelligence  
FAQs: Frequently Asked Questions

**industry (type of work)**

the people and activities involved in one type of business

the gas/electricity industry

the tourist industry

manufacturing industries

**skill**

an ability to do an activity or job well, especially because you have practiced it

business/specialist skills

improve/sharpen/upgrade skills

communication/interpersonal/negotiation skills

analytical/practical/technical skills

acquire/develop/learn skills

Synonyms:

ability, knack, talent, aptitude

**remain [formal]**

to stay in the same place or in the same condition

**worth**

having a particular value, especially in money

**solidify (certain)**

to become or make something become certain

**demand (need)**

a need for something to be sold or supplied

demand for

in demand

increasing/rising/growing demand

high/strong/huge demand

**find out**

to discover, learn or verify something

**reliability**

how well a machine, piece of equipment, or system works

reliability of something

system/engine reliability

**UI/UX (User Interface/User Experience)**

While UI generally deals with the interaction between users and computer systems, software and applications, UX deals more generally with a user's overall experience with a brand, product or service.

**full stack**

A full-stack web developer is a person who can develop both client and server software.

**analyst**

someone whose job is to study or examine something in detail

a financial/food/political/data/industry/market/business analyst

**manager**

the person who is responsible for managing an organization

a bank manager

**engineer**

a person whose job is to design or build machines, engines, or electrical equipment, or things such as roads, railways, or bridges, using scientific principles

a civil engineer

a mechanical/structural engineer

a software engineer

**designer**

a person who imagines how something could be made and draws plans for it  
a fashion/software/theatrical designer

**developer**

a person or company that creates new products, especially computer products  
software developer

**technical architect**

A technical architect acts as a bridge between technical and business aspects of an organization and oversees the design and implementation of IT systems.

**specialist**

someone who has a lot of experience, knowledge, or skill in a particular subject  
a software specialist

**scientist**

an expert who studies or works in one of the sciences  
a research/nuclear scientist

**tip (information)**

a useful piece of information, especially about how to do something or about the likely winner of a race or competition  
gardening/cooking/sewing tips  
give someone a tip about/for something

**entry-level job**

An entry-level job can look different depending on your industry, but in general, they are the first job that you get when starting out on a career path.

## **data warehouse**

a large store of data accumulated(gathered) from a wide range of sources within a company and used to guide management decisions.

- **What is a data warehouse?**

A data warehouse, or “enterprise data warehouse” (EDW), is a central repository system in which businesses store valuable information, such as customer and sales data, for analytics and reporting purposes.

Used to develop insights and guide decision-making via business intelligence (BI), data warehouses often contain a combination of both current and historical data that has been extracted, transformed, and loaded (ETL) from several sources, including internal and external databases.

Typically, a data warehouse acts as a business's single source of truth (SSOT) by centralizing data within a non-volatile and standardized system accessible to relevant employees.

Designed to facilitate online analytical processing (OLAP) and used for quick and efficient multidimensional data analysis, data warehouses contain large stores of summarized data that can sometimes be many petabytes large.

## to guess

The most common word for this is **guess**. Guess is used in speech and in writing.

- Guess who called yesterday?
- I'm not sure what breed of dog he is, but if I had to guess, I'd say he's a bloodhound.

**Estimate** can be used when someone guesses the cost, size, value, etc., of something, based on their knowledge.

- They estimate that the work will take at least ten weeks.
- It was difficult to estimate how many trees had been destroyed.

If someone guesses possible answers to a question without having enough information to be certain, you could use the verb **speculate**.

- I don't know why she did it – I'm just speculating.
- A spokesperson declined to speculate on the cause of the plane crash.

# to ask for something

These words mean to say that you want something.

**Ask for** is the most common way of saying this.

- I asked the waiter for another glass.

If you **request** something, you ask for it politely or officially. Request is a formal word.

- The department has requested permission to spend money on new equipment.

If you **apply for** something, you request it officially, usually in writing or by sending in a form.

- We applied for planning permission to build an extension.

If you **demand** something, you ask for it forcefully, in a way that shows that you expect to get what you want.

- People are demanding the right to return to their homes.

If you **claim** something, you ask for it because you think it belongs to you or because you think you have a right to it.

- The protestors claim the right to walk freely through the countryside.

If you **beg for** something, you make a very strong and urgent request for it.

- By the end of the show the audience was begging for more.

## necessary

These words refer to things that are needed in order to achieve a certain result.

One of the most common adjectives for this is **necessary**. Necessary can be used in questions to disapprove of a behavior, activity, decision, etc.

- Do you have the necessary skills for the job?
- No purchase is necessary in order to enter the competition.
- Do you need to pound on the table?  
Is that really necessary?

The verbs **need** and **require** and the modal verb **must** are very commonly used to show that something is necessary. Require is slightly more formal than need or must.

- Does she have the skills needed for work of that sort?
- Will you require a wake-up call in the morning?
- The meat must be cooked thoroughly.

If something is very important and necessary, you can use adjectives such as **essential**, **fundamental**, and **indispensable**.

- Clean water is essential for a society's health.
- Some understanding of grammar is fundamental to learning a language.
- This book is an indispensable resource for teachers.

The expression **be a must** is sometimes used in informal situations to describe things that are very necessary to have or do.

- This book is a must for anyone who loves history.

## □ Exercise 2

Fill in the blanks with the words below. Some word forms may need to be changed.

industry skills remain(x2) worth solidify  
demand find reliability reputation  
estimate complained build

1. Good teachers are always in \_\_\_\_\_.
2. Most commentators expect the basic rate of tax to \_\_\_\_\_ at 25 percent.
3. Our house is \_\_\_\_\_ £200,000.
4. Consumers \_\_\_\_\_ about a variety of problems, including call charges and poor network \_\_\_\_\_.
5. The \_\_\_\_\_ worth of her jewels alone is about \$30 million.
6. Recent findings helped to \_\_\_\_\_ our position.
7. It \_\_\_\_\_ a secret.
8. I don't know, but I'll \_\_\_\_\_ out for you.
9. Ruth had/possessed great writing \_\_\_\_\_.
10. The computer \_\_\_\_\_ has been booming.
11. German vehicle manufacturers have \_\_\_\_\_ up a \_\_\_\_\_ for reliability.

[Answer Key](#)

## 1. Software Architect

The Software Architect interacts with the clients as well as developers to optimize the development process by making various design choices. This requires a keen understanding of software architecture. Also, software prototypes are developed by the Software Architect using the customer requirements to ensure the quality of the design.

Some of the skills required for a Software Architect are technical knowledge, good analytical and programming skills as well as communication and management skills.

***The average pay for a Software Architect is USD 221,086 per year.***

### Average Pay in Other Countries:

- **UAE** – Around AED 77,500 per month
- **Australia** – Around \$151,573 per year
- **Canada** – Around CA\$1,47,493 per year
- **United Kingdom** – Around GBP 91,533 per year
- **Germany** – Around EUR 93,279 per year.

## 2. AI Architect

The AI Architect handles the AI development and management of an organization. This involves creating AI solutions for the client as well as creating the system architecture based on the AI frameworks.

Some of the skills required for an AI Architect are knowledge of languages used for statistical computing is required such as Python, R, etc. as well as technologies in the domain of AI such as Machine Learning, [Deep Learning](#), Statistical Learning, [Neural Networks](#), etc.

***The average pay for an AI Architect is \$1,75,161***

### Average Pay in Other Countries:

## □ Phrases & Vocabulary

interact with  
optimize the process  
a keen understanding of  
software prototypes  
AI frameworks  
customer requirements  
client  
statistical computing  
ensure  
quality  
technical knowledge  
good analytical and programming skills  
based on  
handle  
involve

as well as: in addition, and also  
make choices/a choice: to choose  
average pay: average salary  
per year: annually, yearly, each/every year,  
per annum

**interact**

to communicate with someone or react to something  
interact with

**optimize**

to change data, software, etc. in order to make it work more efficiently or to make it suitable for a particular purpose

**keen**

very good or well developed/strong  
keen interest  
keen sense

**based on**

to use an idea, a fact, a situation, etc. as the point from which something can be developed  
based something on/upon something

**handle**

to deal with something difficult  
handle pressure/stress/problems

**technical**

relating to the knowledge, machines, or methods used in science and industry  
a few technical problems

**statistical computing**

Computational statistics, or statistical computing, is the interface between statistics, computer science, and numerical analysis.

## prototype

the first example of a machine or other industrial product, from which all later forms are developed

build/develop/create a prototype

- **What is Prototyping?**

Prototyping is an iterative process of quickly building a simplified version of a product or system to test ideas, gather feedback, and refine the final solution.

Prototyping is done before the development of the product to get clear solutions to improve the product. It ensures that the product meets the needs of the user. Prototypes are important during the design process as they allow testing and revising a design before it becomes final.

# to make different

These words all refer to making someone or something different.

The most common word for this is **change**.

- She'll always be like that - you can't change her.
- I need to change my flight.

**Alter** is a common alternative to change.

- We've had to alter our plans.

If you often change something that you do, you can say you **vary** it.

- Try to vary the children's diet a little.

If someone changes the purpose or appearance of something, you can use the verb **convert**, or the phrasal verb **turn into**.

- We're going to convert the spare bedroom into an office.
- There are plans to turn his latest book into a film.

If you change something completely, especially if you improve it, the verb **transform** is sometimes used.

- The riverside area has been transformed into a shopping and sports complex.

If you change something slightly in order to improve it, you can use the verb **modify**.

- The engine was modified to improve its performance.

If someone changes from doing or using one thing to doing or using another, the verb **switch** is sometimes used.

- We've switched over to low-fat milk.
- Jack has just switched jobs.

If someone or something changes to fit a new situation or use, you can use the verb **adapt**.

- The novel was adapted into a screenplay by the author.
- This book has been adapted for children.
- Our company is always adapting to the latest technologies.

If you change something slightly so that it is more effective or useful, you can use the verb **adjust**.

- You can adjust the height of the seat if the chair is uncomfortable.
- Teachers who must move their classes online will need to adjust their teaching styles.

If someone or something changes slowly and over a long period of time, you can use the verb **evolve**. Evolve usually implies a very large or noticeable change.

- The modern cat evolved from saber-toothed tigers.
- Her views on immigration evolved over the years.

## □ Confusing Words

### quality, quantity

**Quality** is a measure of excellence, and **quantity** is a countable measure of items.

- Their products are of very high/low/poor quality.
- This is a quality product. (excellent)
- That gig was quality. (informal, excellent)
- She served each of us a vast quantity of spaghetti.

### client, customer

A **client** is a person or organization that hires you for your services, such as a lawyer or accountant.

A **customer** is someone who buys what you're selling, such as a client's employee or an individual who uses your products or services.

- They not only aim to sell goods but also they take pride in how they serve their clients.
- His client list includes many professional sports and entertainment notables.
- He's a tough customer.
- Our customers have very tight budgets.
- We also improved our customer satisfaction levels.

## involve, evolve

**Evolve:** change or develop over time

**Involve:** Include a person or thing in something that is happening.

- Bacteria are evolving resistance to antibiotics.
- The accident involved two cars and a truck.
- The operation involves inserting a small tube into the heart.

## assure, ensure, insure

These are all associated with "making an outcome sure," which might explain why they're often misused. Despite sounding alike, the words are not interchangeable.

**To assure:** to promise or say with confidence

**To ensure:** to make certain

**To insure:** to protect against risk by regularly paying an insurance company

- I assure you that she is a skilled technician.
- To ensure that the job is done, I will follow up tomorrow.
- You must insure your car because the law requires it.

## □ Exercise 3

Fill in the blanks with the words below. Some word forms may need to be changed.

interact(x2) base optimize(x2) handle  
keen(x2) advantage decision

1. a \_\_\_\_\_ sense of smell
2. Young people today are used to \_\_\_\_\_ with content on the web.
3. We need to \_\_\_\_\_ our use of the existing technology.
4. The movie is \_\_\_\_\_ on a real-life incident.
5. The manager had a \_\_\_\_\_ understanding of the project, which allowed him to make confident \_\_\_\_\_ quickly.
6. It was a job that taught me how to \_\_\_\_\_ pressure and use it to my \_\_\_\_\_.
7. It's interesting at parties to see how people \_\_\_\_\_ socially.
8. It is important that websites are \_\_\_\_\_ for mobile devices.

[Answer Key](#)

## 5. Data Scientist

The **Data Scientist** analyses complex data to find common trends and patterns that eventually help in making more informed decisions. This involves collecting the data from various sources, cleaning it to ensure accuracy and then using various data models and algorithms to analyze the data. After that, the data scientist may use data visualization techniques to convey the findings to company officials.

Some of the skills required for a Data Scientist are knowledge of statistical analysis, knowledge of programming languages such as Python, SQL, etc. as well as good data intuition and business acumen.

**Average pay for a Data Scientist is USD 156,223 per Year.**

### Average Pay in Other Countries:

- **UAE** – Around AED 20,000 per Year
- **Australia** – Around \$122,750 per year
- **Canada** – Around CAD 107,064 per year
- **United Kingdom** – Around GBP 65,524 per year
- **Germany** – Around EUR 70,479 per year

## □ Phrases & Vocabulary

common trends and patterns  
making more informed decisions  
to ensure accuracy  
data models and algorithms  
data visualization techniques  
convey the findings  
good data intuition  
business acumen

complex: puzzling, challenging  
eventually: in the end, finally

**common (usual)**

the same in a lot of places or for a lot of people

**common (shared)**

belonging to or shared by two or more people, or things

a common goal/interest

**common courtesy/decency**

the basic level of politeness that you expect from someone

**common sense**

the ability to think about things in a practical way and make sensible decisions.

**convey (communicate)**

to express feelings, thoughts, or information to other people

**convey (transport)**

to take or carry someone or something to a particular place

**informed**

having a lot of knowledge or information

**decision**

a choice that you make about something after thinking about

## **data intuition**

It refers to your ability to draw insights from data and use those insights to solve problems. When someone asks you a question, do you immediately know what data you need to answer it?

## **acumen**

skill in making correct decisions and judgments in a particular subject, such as business or politics

business/financial acumen

commercial/legal acumen

## **accuracy**

the fact of being exact or correct

with accuracy

pinpoint accuracy

great accuracy

high degree of accuracy

## **visualization (creating image)**

the act of creating an image to represent information in a way that makes it easier to understand, or an example of such an image

## data visualization

the graphical representation of information.

- **Understanding Data Visualization**

Data visualization translates complex data sets into visual formats that are easier for the human brain to understand. This can include a variety of visual tools such as

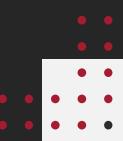
Charts Bar charts, line charts, pie charts, etc.

Graphs Scatter plots, histograms, etc.

Maps Geographic maps, heat maps, etc.

Dashboards Interactive platforms that combine multiple visualizations.

The primary goal of data visualization is to make data more accessible and easier to interpret allow users to identify patterns, trends, and outliers quickly. This is particularly important in big data where the large volume of information can be confusing without effective visualization techniques.



# happening or seen often

These words describe things that happen often or are seen in a lot of places.

One common word for this is **common**. It is used to refer to things that happen all the time, and it is very often used to describe something that affects many people in a group in the same way.

- Working from home has become increasingly common.
- This condition is common in older women.
- Pollution is a common cause of cancer around the world.

One opposite of common is **rare**.

- These birds are now extremely rare.

If something is **commonplace** it is so common or it happens so often that it is not considered to be special, and sometimes is not even noticed.

- Earthquakes are a commonplace occurrence in California.
- Those outdated attitudes about gender are fairly commonplace here.

Something that is **widespread** exists or happens in many places or among many people. It can describe things that happen over a very great distance or across a large number of people.

- There was widespread criticism of the proposed law.
- The widespread use of smartphones has made paper maps obsolete.
- Power outages may be widespread after the storm - be prepared.

**Prevalent** describes things that are very common in certain places or among certain groups of people, especially compared with other places or groups. Prevalent is used often in technical or medical writing.

- These problems affect the whole country but are especially prevalent in rural areas.
- The disease is more prevalent in African Americans than in white Americans.

## □ Exercise 4

Fill in the blanks with the words below. Some word forms may need to be changed.

common(x2) convey accuracy visualization  
courtesy acumen feature experience genuine

1. It's quite \_\_\_\_\_ to see couples who dress alike.
2. English has some \_\_\_\_\_ common to many languages.
3. His communications were characterized by a lack of common \_\_\_\_\_.
4. It's \_\_\_\_\_ sense to keep medicines away from children.
5. He always conveyed a sense of \_\_\_\_\_ interest in his students.
6. Water flows into the channels and those channels \_\_\_\_\_ it to the fields.
7. She has considerable business/financial \_\_\_\_\_.  
\_\_\_\_\_.
8. \_\_\_\_\_ is needed to use the machine with accuracy.
9. The computer will calculate your position with pinpoint \_\_\_\_\_.
10. You can design interactive \_\_\_\_\_ of results.

[Answer Key](#)

## 8. Product Manager

Product Managers oversee the product lifecycle from concept to market, working cross-functionally with developers, designers, and marketing teams. Their role involves gathering and analyzing customer requirements, setting product strategies, and ensuring timely delivery. Key skills include strategic planning, market analysis, communication, and familiarity with Agile methodologies.

*The average pay for a Product Manager is USD 145,000 per year.*

- **UAE:** AED 30,000 per month
- **Australia:** AUD 130,000 per year
- **Canada:** CAD 115,000 per year
- **United Kingdom:** GBP 70,000 per year
- **Germany:** EUR 80,000 per year

## 9. Blockchain Engineer

The **Blockchain Engineer** develops and implements digital solutions using the Blockchain technology. So the system architecture, decentralized applications, etc. can be constructed by Blockchain Engineers.

Some of the skills required for a Blockchain Engineer are a thorough knowledge of various technologies that are used in **Bitcoin**, **Ripple**, **Ethereum**, etc. as well as analytical skills and attention to detail.

*The average pay for a Blockchain Engineer is USD 140,794 per year.*

## 15. Software Engineer

Software Engineers develop, test, and maintain software applications for various industries. They collaborate with product managers and designers to understand requirements and write efficient code to bring applications to life. Core skills include knowledge of programming languages like Java, C++, Python, and a strong understanding of software development methodologies.

*The average pay for an Software Engineer is \$110,140 per year.*

- **UAE:** AED 22,000 per month
- **Australia:** AUD 95,000 per year
- **Canada:** CAD 85,000 per year
- **United Kingdom:** GBP 50,000 per year
- **Germany:** EUR 60,000 per year

## 16. Full Stack Developer

The Full Stack Developer has the ability to work on all aspects of application development and so requires the knowledge of both the front-end and back-end development as well as database, networking, system infrastructure, etc.

Some of the skills required for a Full Stack Developer are the basics of database technologies, web development, API development, etc. Also, knowledge of various technologies such as [AngularJS](#), [MongoDB](#), [Node.js](#), etc is required.

*The average pay for a Full Stack Developer is \$97,377 per year.*

## □ Phrases & Vocabulary

oversee

product lifecycle

working cross-functionally

gathering and analyzing

setting strategies

ensuring timely delivery

strategic planning

familiarity

develop and implement

decentralized

constructed

thorough knowledge

application

collaborate

efficient code

**gather:** collect, meet, come/get together

**key skills:** very important skills

**core skills:** basic/most important skills

**bring sth to life:** make active or interesting

**strong understanding:** keen understanding

**aspect:** angle, facet, feature, side

**basics:** essentials, fundamentals

**API:** Application Programming Interface

**oversee**

to watch or organize a job or an activity to make certain that it is being done correctly

**set**

to establish or decide something  
set a standard/limit/record/goal

**implement**

to start using a plan or system/to put a plan into action  
to implement a plan/policy/measure  
to implement a change/program/recommendation

**product lifecycle (PLC)**

the stages in a particular product's existence  
introduction, growth or increasing sales,  
maturity (= slow or no increase in sales), and  
decline or reduction in sales

**cross-functional**

relating to a way of working in which people from different teams across an organization work together

**decentralized**

used to describe organizations or their activities which are not controlled from one central place, but happen in many different places  
decentralized decision-making

**thorough**

complete, very great, or very much

**familiarity (knowledge)**

a good knowledge of something, or the fact that you know it so well  
familiarity with

**familiarity (friendliness)**

friendly and informal behavior

**construct**

to build or make (something, typically a building, road or machine)  
to construct a new bridge/building  
be constructed of  
to construct a story/sentence/argument

**timely**

happening at the best possible moment  
a timely reminder/warning  
timely advice

**collaborate**

to work with someone else for a special purpose  
collaborate on  
collaborate with  
collaborate in

**code efficiency**

It refers to the effectiveness of a code in representing information with minimal redundancy.

### **application (app)**

a computer program that is designed for a particular purpose

internet/web/Windows™ application

an application programs/software

The terms software and application are often used interchangeably by people with a limited comprehension of computer technology. Technically, applications are a form of software, but not all software is an application.

### **application (request)**

an official request for a job, a place on a course, etc., usually in writing:

an application for sth We received over 250 applications for the post.

make/submit an application You can submit your application online.

a job/college/membership application

### **application (use)**

a way in which something can be used for a particular purpose:

The design has many applications.

## □ Exercise 5

Fill in the blanks with the words below. Some word forms may need to be changed.

oversee set(x2) implement conduct  
thorough decentralize cross-functional  
familiarity unit construct timely collaborate

1. The management structure is highly \_\_\_\_\_.
2. The school has been criticized for failing to \_\_\_\_\_ high standards for its students.
3. We were saved by the \_\_\_\_\_ arrival of the fire department.
4. The projects require \_\_\_\_\_ teams to come together and work as a \_\_\_\_\_.
5. He's \_\_\_\_\_ himself the goal of making his first million by the time he's 30.
6. Due to high costs, the program was never fully \_\_\_\_\_.
7. He was hired to \_\_\_\_\_ design and construction of the new facility.
8. It was a \_\_\_\_\_ waste of time.
9. The team will \_\_\_\_\_ with colleagues at another lab who \_\_\_\_\_ related research.
10. Ellen's \_\_\_\_\_ with pop music is astonishing.
11. The walls are \_\_\_\_\_ of concrete.

[Answer Key](#)

## Tips for Getting a Job in Tech Industry

5 tips to achieve your dream job are mentioned below:

1. **Gain Knowledge** about your role and responsibility. Practice the skills that are needed for the role.
2. **Build Online Presence** on social media tools like Twitter (now X) or LinkedIn which might get you unexpected opportunities, connect with people in similar fields and also help in discovering latest advancements in the field.
3. **Target your dream company** and their employers, research about their needs and expectations. Preparing beforehand will provide you some advantage over other people.
4. **Stay always ready** for unexpected interview calls, and attend them whenever you get one. Tech companies do fast recruitment and you should not miss any opportunity.
5. **Remain curious** in interviews and try to ask questions to the recruiter. Recruiters want people who are proactive and curious about the job and company.

### Also Read:

- [Interview Preparation for Software Developer](#)
- [Top 10 Job Interview Tips For Freshers](#)
- [How to get started for technical Interviews?](#)
- [10 Best Tips To Speed Up Your Job Search](#)

14. Tesla

15. Qualcomm

### Which IT job does not require coding?

*Most of the IT jobs will require you to at least know the basics of coding, but there are certain roles in the IT industry that does not require knowledge of coding. Some of the jobs that does not require coding are:*

1. UX designer
2. Product manager
3. market research analyst

### What is the Highest Paying Entry-Level Tech Job?

*Highest paying entry level tech job right now is a **Software Engineer** with entry level salary of INR 5-6 Lakhs per annum.*

 Comment

More info ▾

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Top 10 Highest Paying IT Jobs in  
2020

## □ Phrases & Vocabulary

getting a job

get started

achieve your dream job

gain knowledge about

responsibility

build online presence

latest advancements

attend interview

fast recruitment

ask questions to the recruiter

miss opportunity

target your dream company

stay ready

proactive and curious

interview preparation

fresher/freshman

certain roles

**attend:** show up, visit

**stay:** continue, remain, wait

**at least:** at the minimum

**right now:** at the present time

**more info:** more information

**article:** essay

**speed up:** go faster

**INR:** (Indian Rupee) 5-6 lakhs (lakh/lac = 100,000 Indian Eng.)

**gain (obtain)**

to obtain something useful, advantageous, or positive

**gain (increase)**

to increase in weight, speed, height, or amount

**achieve**

to successfully finish or do something you wanted to do, especially after a lot of effort  
attempt/strive/seek to achieve something  
achieve an objective/goal/target  
achieve success/profitability/savings

**responsibility (duty)**

something that it is your job or duty to deal with

**advancement**

the development or improvement of something  
the advancement of  
advancements in something  
technological/economic/medical advancement

**proactive**

taking action by causing change and not only reacting to change or problem when it happens  
a proactive approach/role

**curious**

interested in learning about people or things around you  
curious about

**fresher (UK informal)**

a first-year student at college or university

Synonym:

freshman (US)

In the context of recruitment and jobs, “fresher” means people who have recently graduated from university or lack professional work experience in their field.

Synonym:

entry-level programmers

**certain**

- limited
- particular but not named or described

**recruitment**

the process of employing new people to work for a company or organization

**target**

- a result or situation that you intend to achieve
- to direct advertising, criticism, or a product at someone

**miss**

- to not go to something
- to not notice someone or something

## □ Exercise 6

Fill in the blanks with the words below. Some word forms may need to be changed.

gain achieve(x2) diet major ensure  
advancement recruitment target(x2) wage

1. I've gained weight, and I'm going on a \_\_\_\_\_.
2. All she was interested in was the \_\_\_\_\_ of her own career.
3. The division has \_\_\_\_\_ its objective of being a \_\_\_\_\_ force in home entertainment.
4. He \_\_\_\_\_ control of the business last year.
5. It's her responsibility to \_\_\_\_\_ the project finishes on time.
6. We met our sales \_\_\_\_\_ for the year.
7. In the private business sector, there has been a tight limit on \_\_\_\_\_ rises and a near-freeze on \_\_\_\_\_.
8. Salespersons strived to \_\_\_\_\_ maximum sales.
9. The advert for the energy drink is \_\_\_\_\_ specifically at young people.

[Answer Key](#)

**1** [back to exercise](#)

1. contributed
2. employees
3. edge
4. wage
5. According to
6. booming
7. revenue
8. dominates
9. (ever-increasing)
10. vast
11. maintain
12. sector
13. lucrative

**2** [back to exercise](#)

1. demand
2. remain
3. worth
4. complained-reliability
5. estimated
6. solidify
7. remains
8. find
9. skills
10. industry
11. built-reputation

**3** [back to exercise](#)

1. keen
2. interacting
3. optimize
4. based
5. keen-decisions
6. handle-advantage
7. Interact
8. optimized

**4** [back to exercise](#)

1. common
2. features
3. courtesy
4. common
5. genuine
6. convey
7. acumen
8. Experience
9. accuracy
10. visualization

**5** [back to exercise](#)

1. decentralized
2. set
3. timely
4. (cross-functional)-unit
5. set
6. implemented
7. oversee
8. thorough
9. collaborate-conduct
10. familiarity
11. constructed

**6** [back to exercise](#)

1. diet
2. advancement
3. achieved-major
4. gained
5. ensure
6. target
7. Wage-recruitment
8. achieve
9. targeted

# Sources

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# CS50x Iran

Harvard's Computer Science 50x Iran

