

Vocabulary, Collocation and Idioms

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Topic:

AI & Technology

Vocabularies

1. automation /ˌɔː.təˈmeɪ.ʃən/

The use of machines and software to perform tasks without human involvement

اتومات سازی

Automation is transforming many industries by reducing the need for manual labor.

2. algorithm /ˈæ.lɡə.rɪðəm/

A set of rules a computer follows to solve a problem

الگوریتم

Social media platforms use complex algorithms to recommend content.

3. machine learning /məˈʃiːn ˈlɜː.nɪŋ/

A branch of AI where systems learn from data

یادگیری ماشینی

Machine learning helps apps predict what users want before they even search for it.

4. neural network /ˈnjʊə.rəl ˌnet.wɜːk/

A computer system designed to work like the human brain

شبکه عصبی

Neural networks allow AI to recognize faces with high accuracy.

5. data-driven /ˈdeɪ.tə ˌdrɪv.ən/

Based on using data to make decisions

بر اساس داده

Modern companies make data-driven decisions to improve customer experience.

6. digital transformation /ˌdɪdʒ.ɪ.təl træn.s.fəˈmeɪ.ʃən/

The process of using new technologies to improve a business

تحول دیجیتال

Digital transformation has helped many small businesses reach global markets.

7. cybersecurity /ˌsaɪ.bə.sɪˈkjʊə.rə.ti/

Protection of computer systems from attacks

امنیت سایبری

Cybersecurity is becoming more important as our lives move online.

8. cloud computing /klaʊd kəm'pjʊ:.tɪŋ/

Storing and accessing data online instead of on a local device

رایانش ابری

Cloud computing makes it easier to work from anywhere.

9. big data /,bɪɡ 'deɪ.tə/

Extremely large sets of data that can be analyzed for insights

داده‌های کلان

Big data helps governments plan better public services.

10. innovation /,ɪn.ə'veɪ.ʃən/

A new idea, method, or device

نوآوری

Innovation in AI is changing the way we communicate and work.

11. digital literacy /'dɪdʒ.ɪ.təl 'lɪt.rə.si/

The ability to use digital devices and tools effectively

سواد دیجیتال

Digital literacy is essential for students in the modern world.

12. virtual reality /,vɜ:.tʃu.əl ri'æl.ə.ti/

A computer-generated environment that feels real

واقعیت مجازی

Virtual reality is now used in education to make learning more interactive.

13. augmented reality /,ɔ:g'mentɪd ri'æl.ə.ti/

Technology that adds digital elements to the real world

واقعیت افزوده

Augmented reality apps help shoppers try products before buying.

14. cutting-edge /,kʌt.ɪŋ'edʒ/

Very advanced and modern

پیشرفته و مدرن

The company develops cutting-edge technologies for medical use.

15. digital footprint /'dɪdʒ.ɪ.təl 'fʊt.prɪnt/

All the online information created by a person

ردپای دیجیتال

Teenagers should be careful about their digital footprint.

16. automation fatigue /ˌɔː.təˈmeɪ.ʃən fəˈtiːɡ/

Tiredness or frustration from over-reliance on automated systems

خستگی ناشی از اتوماسیون

Some employees experience automation fatigue when systems fail unexpectedly.

17. tech-savvy /tek ˈsæv.i/

Good at using technology

ماهر در تکنولوژی

Young people today are generally more tech-savvy than older generations.

18. digital ecosystem /ˈdɪdʒ.ɪ.təl ˈiː.kəʊ.sɪ.stəm/

A network of digital tools and platforms that work together

زیست‌بوم دیجیتال

Businesses need a strong digital ecosystem to stay competitive.

19. ethical AI /ˈeθ.ɪ.kəl eɪ.aɪ/

AI designed to follow moral and responsible principles

هوش مصنوعی اخلاقی

Developers must focus on ethical AI to avoid discrimination and misuse.

20. smart devices /smɑːt dɪˈvaɪsɪz/

Electronic gadgets that can connect and operate intelligently

دستگاه‌های هوشمند

Smart devices have made daily life more convenient and efficient.

Collocations

1. advanced algorithms /əd'vɑːnst 'ælgə.rɪðəmz/

Highly complex computer rules used for decision-making

الگوریتم‌های پیشرفته

Search engines rely on advanced algorithms to deliver accurate results.

2. artificial intelligence systems /,ɑː.tɪ'fɪʃ.əl ɪn'tel.ɪ.dʒəns 'sɪs.təmz/

Computer systems that can perform tasks requiring human intelligence

سیستم‌های هوش مصنوعی

Artificial intelligence systems are now capable of diagnosing diseases.

3. data analysis tools /'deɪ.tə ə'næl.ə.sɪs tuːlz/

Software used to examine data

ابزارهای تحلیل داده

Companies use data analysis tools to improve marketing strategies.

4. digital innovation /'dɪdʒ.ɪ.təl ɪn.ə'veɪ.fən/

New technological ideas or methods

نوآوری دیجیتال

Digital innovation is driving economic growth worldwide.

5. real-time processing /,rɪəl taɪm 'prəʊ.ses.ɪŋ/

Computing information instantly

پردازش آنی

Navigation apps require real-time processing to update routes.

6. cloud-based platforms /klaʊd beɪst 'plætfɔːmz/

Online systems that store and manage data

پلتفرم‌های مبتنی بر ابر

Many businesses are moving their operations to cloud-based platforms.

7. user-friendly interface /'juː.zə 'frend.li ɪn.tə.feɪs/

A design that is easy to use

رابط کاربری ساده و راحت

Most customers prefer apps with a user-friendly interface.

8. tech-related challenges /tek rɪ'leɪ.tɪd 'tʃæl.m.dʒɪz/

Problems caused by technology

چالش‌های مرتبط با فناوری

Remote work brings several tech-related challenges.

9. digital privacy concerns /'dɪdʒ.ɪ.təl 'praɪ.və.si kən'sɜːnz/

Worries about personal data online

نگرانی‌های مربوط به حریم خصوصی دیجیتال

Digital privacy concerns have increased after recent cyberattacks.

10. high-tech equipment /haɪ'tek ɪ'kwɪp.mənt/

Advanced technological tools

تجهیزات پیشرفته تکنولوژیک

Hospitals rely on high-tech equipment for accurate diagnosis.

11. software development cycle /'sɒft.weə dɪ'vel.əpmənt ,saɪ.kəl/

The process of creating software

چرخه توسعه نرم‌افزار

The software development cycle includes testing and maintenance.

12. data security measures /'deɪ.tə sɪ'kjʊə.rə.ti 'meʒ.əz/

Actions taken to protect data

اقدامات امنیتی داده

Companies invest heavily in data security measures.

13. rapid technological progress /'ræp.ɪd tek.nə'lɒdʒ.ɪ.kəl 'prəʊ.gres/

Very fast development of technology

پیشرفت سریع تکنولوژی

Rapid technological progress has changed the job market.

14. automated customer service /'ɔː.tə.meɪ.tɪd 'kʌs.tə.mə ,sɜː.vɪs/

Customer support handled by AI

خدمات مشتری خودکار

Many companies now use automated customer service to answer basic questions.

15. tech-driven society /tek 'drɪv.ən sə'saɪ.ə.ti/

A society shaped by technology

جامعه وابسته به تکنولوژی

We live in a tech-driven society where digital skills are essential.

Idioms

1. push someone's buttons /pʊʃ sʌmwʌnz 'bʌt.ənz/

To strongly affect or provoke someone

اعصاب کسی را خرد کردن

Slow internet always pushes my buttons.

2. reboot your life /ri:'bu:t jɔ: laɪf/

To start fresh or make big changes

زندگی را از نو شروع کردن

Moving abroad helped me reboot my life.

3. a lightbulb moment /ə 'laɪtbʌlb 'məʊ.mənt/

A sudden realization or idea

لحظه جرقه زدن یک ایده

I had a lightbulb moment when I discovered how AI could simplify my work.

4. pull the plug /pʊl ðə plʌg/

To stop something from continuing

متوقف کردن کاری

The company pulled the plug on an old project to focus on AI.

5. not rocket science /nɒt 'rɒkɪt ˌsaɪəns/

Something easy to understand

چیز پیچیده‌ای نیست

Using this app is not rocket science.

6. hit the panic button /hɪt ðə 'pæn.ɪk ˌbʌt.ən/

To react too quickly or get worried

وحشت‌زده شدن

Don't hit the panic button; the system will restart automatically.

7. break the internet /breɪk ði 'ɪn.tə.net/

To become extremely popular online

اینترنت را منفجر کردن (خیلی وایرال شدن)

The new AI tool broke the internet within hours.

8. go viral /gəʊ 'vaɪ.rəl/

To spread quickly online

وايرال شدن

Her video about using AI in education went viral.

9. plug-and-play /plʌg ən pleɪ/

Easy to use without any setup

قابل استفاده بدون تنظیمات

The device is totally plug-and-play.

10. ahead of the curve /ə 'hed əv ðə kɜ:v/

More advanced than others

جلوتر از بقیه بودن

Companies that adopt AI early stay ahead of the curve.