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Vocabulary Builder Reference from...

Nita Farahany: Your right to mental privacy in the age of brain-sensing tech | TED Talk

https://www.ted.com/talks/nita_farahany_your_right_to_mental_privacy_in_the_age_of_brain_sensing_tech

Advanced Words Only

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Session 1: Word List

heartbeat

n. the regular movement or sound of the heart as it sends blood around the body; an animating or vital unifying force

synonym : beat, pulse, force

(1) **heartbeat** abnormality, (2) a pounding **heartbeat**

New York is the commercial **heartbeat** of America.

neurotechnology

n. technology or advancements in the field of neuroscience, often related to the study or manipulation of the brain or nervous system

synonym : brain-machine interfaces, neural implants, neuroprosthetics

(1) **neurotechnology** startup, (2) advanced **neurotechnology**

Research in **neurotechnology** is leading to groundbreaking advancements in brain-computer interfaces.

meta

adj. pertaining to or involving a higher or more abstract level of analysis, interpretation, or self-reference, often used to describe aspects of gaming, social media, or other online communities that involve self-conscious or self-referential elements

synonym :

self-referential, introspective, recursive

(1) **meta-analysis**, (2) **meta-language**

The **meta** description of a website is an important element for search engine optimization.

embed

v. to fix or set firmly in a surrounding mass

synonym: entrench, fix, set

(1) **embed** scripts in the message, (2) **embed** a sensor

The company **embedded** a tracking code in the product's packaging to monitor its shipment.

earbud

n. a small electronic device that fits into the ear canal and is used for listening to music or for communication, especially when attached to a portable audio player or mobile phone

synonym: earphone, headphone

(1) wireless **earbud**, (2) sport **earbuds**

He bought noise-canceling **earbuds** to help him concentrate while working in a noisy environment.

inflection

n. a change in the pitch or tone of one's voice; a change in the form of a word to indicate tense, mood, gender, or other grammatical categories

synonym: accent, intonation, modulation

(1) **inflection** in voice, (2) **inflection** pattern

The linguist studied the **inflection** of the language's inflection in speech.

augment

v. to increase the size, extent, quantity, etc. of something by adding something to it

synonym: boost, increase, expand

(1) **augment** the reality, (2) **augment** immunity

Economic factors and monetary policy **augmented** inflation.

industrious

adj. hardworking, diligent, and persistent in effort

synonym: diligent, hardworking, assiduous

(1) **industrious** worker, (2) **industrious** student
He was known to be very **industrious** and would often work late into the night.

well-being

n. the state of being happy and healthy and prosperous
synonym: health, welfare, happiness

(1) the **well-being** of a nation, (2) a sense of **well-being**
We are responsible for the care and **well-being** of all our employees.

neurological

adj. of or relating to the science of neurology or the nervous system

synonym: nervous, neural, brain-related

(1) fever with **neurological** signs, (2) **neurological** symptoms

The patient was diagnosed with a **neurological** disorder affecting their motor skills.

dementia

n. a severe decline in cognitive function, especially memory, as a result of disease or injury

synonym: cognitive decline, memory loss, Alzheimer's disease

(1) **dementia** patients, (2) probably have **dementia**

The study found that regular exercise can help to prevent the onset of **dementia** in older age.

Alzheimer

n. a neurodegenerative disease that causes memory loss, cognitive decline, and behavioral issues; is the most common cause of dementia in older adults

synonym: dementia, memory loss, cognitive decline

(1) **Alzheimer's** brain, (2) **Alzheimer's** risk factors

My grandmother has **Alzheimer's** disease requires special care and attention from her caregivers.

profoundly

adv. to a great or complete degree; deeply

synonym: deeply, greatly, completely

(1) **profoundly** insightful, (2) sleep **profoundly**

The novel affected her **profoundly**, causing her to question her beliefs and values.

prolong

v. to extend the duration or length of something, particularly a period of time or an event

synonym: extend, lengthen, stretch

(1) **prolong** the agony, (2) measures to **prolong** the lifespan

We need to **prolong** the meeting for another hour to discuss all the issues.

hospitalize

v. to admit someone to a hospital for medical treatment

synonym: admit, place in hospital

(1) **hospitalize** patient, (2) **hospitalize** child

She had to be **hospitalized** due to her injuries.

complication

n. something that makes a situation or condition that is complex or confused

synonym: confusion, complexity, difficulty

(1) **complication** of structure, (2) resolve without **complication**

He also continued to struggle with serious long-term **complications**.

harrowing

adj. causing distress or suffering; extremely distressing

synonym: traumatic, torturous, distressing

(1) **harrowing** battle, (2) **harrowing** journey

Her **harrowing** experience in the war had left her with deep emotional scars.

relive

v. to experience again or bring back the memory of a past event or time

synonym: revisit, recall, remember

(1) **relive** my youth, (2) **relive** moments

I like to watch old movies to **relive** memories of my childhood.

neuron

n. a cell that is specialized to carry information within the brain and between the brain and other parts of the body

synonym : nerve cell

(1) excite the **neurons**, (2) **neuron** cell body

Our body transfers information along each **neuron** using an electrical impulse.

decode

v. to convert something, such as a message or piece of information, from a specific form into one that you can understand

synonym : decipher, translate, interpret

(1) **decode** a message, (2) ability to **decode** the differences

The software could **decode** the encrypted data and reveal the hidden information.

reprieve

v. to temporarily halt or cancel a punishment, especially death or other severe penalties; to provide temporary relief or break from something unpleasant or stressful; (noun) a temporary postponement or relief from something difficult or unpleasant, such as a punishment, a duty, or a difficult situation

synonym : pardon, respite

(1) **reprieve** the athlete from the competition, (2) granting a **reprieve** from punishment

The governor decided to **reprieve** the prisoner's death sentence temporarily.

groundbreaking

adj. producing fresh findings; using novel techniques

synonym : innovative, revolutionary

(1) **groundbreaking** concept, (2) **groundbreaking** settlement

He has produced **groundbreaking** research on the subject.

machine-learning

n. the process through which computers change the way they perform jobs without following explicit instructions by using algorithms and statistical models to analyze and draw inferences from patterns in data

(1) **machine-learning** method, (2) **machine-learning** processor

Many software engineers are developing applications to build **machine-learning** algorithms more quickly.

retrain

v. to teach or learn a new or different set of skills or knowledge, usually to adapt to a new job, situation, or technology

synonym: educate, instruct

(1) **retrain** employees, (2) **retrain** skills

She plans to **retrain** in a new field after retiring from her current career.

intractable

adj. difficult to manage or control; stubborn or obstinate

synonym: obstinate, stubborn, unyielding

(1) **intractable** pain, (2) **intractable** situation

The **intractable** problem defied a solution.

pacemaker

n. a small electronic device that is implanted in the chest to regulate the heartbeat of people with certain heart conditions; a person or thing that sets the pace or rhythm for others

synonym: heartbeat regulator, pacer, pacesetter

(1) implanted **pacemaker**, (2) **pacemaker** battery

Some people with **pacemakers** may need to avoid certain activities or sources of electromagnetic interference.

reclaim

v. to take back something previously lost, given, or paid, or ask to have it back

synonym: recoup, regain, retake

(1) **reclaim** a competitive position, (2) **reclaim** land from the sea

You may be entitled to **reclaim** some tax.

epilepsy

n. a neurological disorder characterized by recurrent seizures or convulsions, which can manifest in a variety of ways and be caused by various factors

synonym: seizures, convulsions, fits

(1) **epilepsy** seizure, (2) **epilepsy** medication

The flashing lights at the concert triggered her **epilepsy** and caused a seizure.

electroencephalography. (also "EEG") a diagnostic medical procedure that involves the use of electrodes placed on the scalp to measure and record the electrical activity of the brain often used to assess and diagnose various neurological conditions

synonym: brain wave test, EEG, neural scan

(1) **electroencephalography** test, (2) abnormal **electroencephalography**

She is an **electroencephalography** technician skilled in performing EEG tests on patients.

lifesaving

n. the act or process of rescuing someone else's life, especially from drowning

(1) **lifesaving** efforts, (2) **lifesaving** device

The patient needs a **lifesaving** transplant operation.

glioblastoma

n. an aggressive and malignant type of brain tumor that arises from glial cells, particularly astrocytes, and is associated with a poor prognosis and high mortality rate

synonym: brain tumor, astrocytoma, cerebral glioma

(1) **glioblastoma** treatment, (2) cerebral **glioblastoma**

The doctor explained the **glioblastoma** prognosis to the patient and his family, stressing the seriousness of the condition.

staggering

adj. so shocking as to stun or overwhelm

synonym: astounding, astonishing, stunning

(1) **staggering** number, (2) a **staggering** defeat

The amount of money required was **staggering**.

unsupported

adj. not given financial or other aid; not having any proof or evidence

synonym : baseless, unfounded, unwarranted

(1) **unsupported** rumor, (2) fight **unsupported**

Removal of the central poll left the roof **unsupported**.

cognizant

adj. aware of or knowledgeable about something; having consciousness or recognition of something

synonym : aware, mindful, conscious

(1) **cognizant** of the risk, (2) become **cognizant**

I have to be **cognizant** of my budget when I go on vacation.

improvisation

n. the act of making something up on the spot or creating or performing something without preparation

synonym : spontaneity, ad-lib, extemporization

(1) **improvisation** on stage, (2) jazz **improvisation**

He created a beautiful piece of music using only **improvisation**.

revolutionize

v. to bring about a complete or radical change in something, often through the introduction of new methods or ideas

synonym : transform, innovate, modernize

(1) **revolutionize** the industry, (2) **revolutionize** the technology

The invention of the smartphone **revolutionized** the way we communicate with each other.

dataset

n. a structured collection of data that is compiled and processed in a computer system or program, typically for analysis, research, or machine learning purposes

synonym : data array, database

(1) **dataset** analysis, (2) publicly available **dataset**

The scientist analyzed the large **dataset** to conclude the experiment.

commodify

v. to turn something into an object of trade or commerce, particularly a good or service that was previously seen as having value beyond its market value

synonym: commercialize, market, sell

(1) **commodify** user data, (2) **commodify** athletes

Many companies try to **commodify** popular trends to make a profit.

complacent

adj. satisfied with the status quo and not wishing to make changes

synonym: content, satisfied, self-satisfied

(1) **complacent** attitude, (2) **complacent** with past successes

He became **complacent** in his job and stopped trying to improve.

hurdle

n. a barrier or obstacle that must be overcome

synonym: obstacle, barrier, challenge

(1) overcome **hurdles**, (2) **hurdle** race

The company faced several **hurdles** in the development of its new product.

biometric

adj. relating to the measurement and analysis of unique physical or behavioral characteristics of an individual, such as fingerprints or voice patterns, often used for identification or security purposes; (noun, biometrics) the use of measurable biological characteristics or traits, such as fingerprints, facial recognition, iris scans, or voice recognition, to identify or authenticate individuals

(1) **biometric** recognition, (2) **biometrics** for visitors

The new smartphone has **biometric** authentication, such as facial recognition and fingerprint scanning.

authenticate

v. to confirm or verify the validity or authenticity of something; to prove or establish that something is genuine or true

synonym: confirm, validate, verify

(1) **authenticate** documents, (2) **authenticate** software license

The security system requires users to **authenticate** their

identity before gaining access.

interrogate

v. to examine someone with questions over a lengthy period, especially in an aggressive manner

synonym: question, examine, probe

(1) **interrogate** an enemy soldier, (2) **interrogated** by police
The lawyer spent considerable time to adequately **interrogate** the witness.

disorient

v. to make someone confused about where they are or where they should go

synonym: confuse, flummox, perplex

(1) **disorient** his audience, (2) **disorient** and wrong-foot viewers

Several studies have indicated that human activity at sea might **disorient** dolphins and whales.

terrifying

adj. very frightening or intimidating

synonym: frightening, intimidating, alarming

(1) **terrifying** experience, (2) **terrifying** events

Large earthquakes often generate **terrifying** tsunamis.

innermost

adj. situated or occurring at the deepest or most central part or point; relating to one's deepest or most private thoughts, feelings, or experiences

synonym: deepest, inner, intimate

(1) **innermost** secrets, (2) **innermost** longings

It took years of therapy before the patient could reveal their **innermost** thoughts and feelings.

flourish

v. to grow or develop vigorously or successfully

synonym: boom, advance, succeed

(1) **flourish** economically, (2) **flourish** worldwide

The Ottoman Empire **flourished** for over five centuries.

interrelated

adj. closely connected or related to each other

synonym : connected, related, interdependent

(1) the **interrelated** nature of the problems, (2) **interrelated** factors

The different parts of the system are **interrelated** and rely on each other to function correctly.

intercept

v. to stop and catch someone or something to prevent them from continuing to a destination

synonym : ambush, block, prevent

(1) **intercept** an enemy force, (2) **intercept** X rays

It is illegal to **intercept** police radio.

metaverse

n. an imaginary immersive area that is facilitated by the use of virtual reality (VR) and augmented reality (AR) headsets

(1) a **metaverse** application, (2) **metaverse** technologies

Anonymous, brilliant artists create content on any platform in the **metaverse**.

silo

n. a tall, cylindrical structure, usually made of concrete or steel, that is used for storing grain, feed, or other dry materials; a system or structure that is isolated or separate from others

synonym : storage, warehouse, barn

(1) nuclear **silo**, (2) **silo** organization

The farmer used a **silo** to store feed for the animals.

lament

v. to express sadness, grief, or disappointment about something, often by complaining or mourning

synonym : mourn, grieve, bemoan

(1) **lament** my misfortunes, (2) **lament** the situation

She **lamented** the loss of her beloved cat.

Session 2: Spelling

- | | |
|---|--|
| 1. da____t analysis | <i>n.</i> a structured collection of data that is compiled and processed in a computer system or program, typically for analysis, research, or machine learning purposes |
| 2. com_____nt attitude | <i>adj.</i> satisfied with the status quo and not wishing to make changes |
| 3. measures to pr_____g the lifespan | <i>v.</i> to extend the duration or length of something, particularly a period of time or an event |
| 4. mac_____ing method | <i>n.</i> the process through which computers change the way they perform jobs without following explicit instructions by using algorithms and statistical models to analyze and draw inferences from patterns in data |
| 5. pr_____g the agony | <i>v.</i> to extend the duration or length of something, particularly a period of time or an event |
| 6. the int_____ted nature of the problems | <i>adj.</i> closely connected or related to each other |
| 7. hos_____ze patient | <i>v.</i> to admit someone to a hospital for medical treatment |
| 8. int_____ted factors | <i>adj.</i> closely connected or related to each other |
| 9. re_____n skills | <i>v.</i> to teach or learn a new or different set of skills or knowledge, usually to adapt to a new job, situation, or technology |

ANSWERS: 1. dataset, 2. complacent, 3. prolong, 4. machine-learning, 5. prolong, 6. interrelated, 7. hospitalize, 8. interrelated, 9. retrain

- | | | |
|---------------------------------------|------|---|
| 10. ability to de___e the differences | v. | to convert something, such as a message or piece of information, from a specific form into one that you can understand |
| 11. Al_____er's risk factors | n. | a neurodegenerative disease that causes memory loss, cognitive decline, and behavioral issues; is the most common cause of dementia in older adults |
| 12. fever with neu_____cal signs | adj. | of or relating to the science of neurology or the nervous system |
| 13. ind_____us student | adj. | hardworking, diligent, and persistent in effort |
| 14. a sta_____ng defeat | adj. | so shocking as to stun or overwhelm |
| 15. rev_____ize the industry | v. | to bring about a complete or radical change in something, often through the introduction of new methods or ideas |
| 16. lif_____ng efforts | n. | the act or process of rescuing someone else's life, especially from drowning |
| 17. au_____t the reality | v. | to increase the size, extent, quantity, etc. of something by adding something to it |
| 18. Al_____er's brain | n. | a neurodegenerative disease that causes memory loss, cognitive decline, and behavioral issues; is the most common cause of dementia in older adults |
| 19. fl_____sh economically | v. | to grow or develop vigorously or successfully |

ANSWERS: 10. decode, 11. Alzheimer, 12. neurological, 13. industrious, 14. staggering, 15. revolutionize, 16. lifesaving, 17. augment, 18. Alzheimer, 19. flourish

20. com_____nt with past successes *adj.* satisfied with the status quo and not wishing to make changes
21. la___t the situation *v.* to express sadness, grief, or disappointment about something, often by complaining or mourning
22. m__a-language *adj.* pertaining to or involving a higher or more abstract level of analysis, interpretation, or self-reference, often used to describe aspects of gaming, social media, or other online communities that involve self-conscious or self-referential elements
23. neu_____ogy startup *n.* technology or advancements in the field of neuroscience, often related to the study or manipulation of the brain or nervous system
24. com_____ion of structure *n.* something that makes a situation or condition that is complex or confused
25. excite the ne___ns *n.* a cell that is specialized to carry information within the brain and between the brain and other parts of the body
26. in_____pt X rays *v.* to stop and catch someone or something to prevent them from continuing to a destination
27. the wel_____ng of a nation *n.* the state of being happy and healthy and prosperous
28. wireless ea___d *n.* a small electronic device that fits into the ear canal and is used for listening to music or for communication, especially when attached to a portable audio player or mobile phone

ANSWERS: 20. complacent, 21. lament, 22. meta, 23. neurotechnology, 24. complication, 25. neuron, 26. intercept, 27. well-being, 28. earbud

29. granting a re_____ve from punishment
30. inf_____on in voice
31. m__a-analysis
32. inf_____on pattern
33. gro_____ing settlement
34. probably have de_____ia
35. rev_____ize the technology
- v.* to temporarily halt or cancel a punishment, especially death or other severe penalties; to provide temporary relief or break from something unpleasant or stressful; (noun) a temporary postponement or relief from something difficult or unpleasant, such as a punishment, a duty, or a difficult situation
- n.* a change in the pitch or tone of one's voice; a change in the form of a word to indicate tense, mood, gender, or other grammatical categories
- adj.* pertaining to or involving a higher or more abstract level of analysis, interpretation, or self-reference, often used to describe aspects of gaming, social media, or other online communities that involve self-conscious or self-referential elements
- n.* a change in the pitch or tone of one's voice; a change in the form of a word to indicate tense, mood, gender, or other grammatical categories
- adj.* producing fresh findings; using novel techniques
- n.* a severe decline in cognitive function, especially memory, as a result of disease or injury
- v.* to bring about a complete or radical change in something, often through the introduction of new methods or ideas

ANSWERS: 29. reprieve, 30. inflection, 31. meta, 32. inflection, 33. groundbreaking, 34. dementia, 35. revolutionize

36. sta_____ng number *adj.* so shocking as to stun or overwhelm
37. abnormal
ele_____phy *n.* (also "EEG") a diagnostic medical procedure that involves the use of electrodes placed on the scalp to measure and record the electrical activity of the brain often used to assess and diagnose various neurological conditions
38. fight uns_____ed *adj.* not given financial or other aid; not having any proof or evidence
39. resolve without com_____ion *n.* something that makes a situation or condition that is complex or confused
40. bi_____ics for visitors *adj.* relating to the measurement and analysis of unique physical or behavioral characteristics of an individual, such as fingerprints or voice patterns, often used for identification or security purposes; (noun, biometrics) the use of measurable biological characteristics or traits, such as fingerprints, facial recognition, iris scans, or voice recognition, to identify or authenticate individuals
41. jazz imp_____ion *n.* the act of making something up on the spot or creating or performing something without preparation
42. co_____fy user data *v.* to turn something into an object of trade or commerce, particularly a good or service that was previously seen as having value beyond its market value

ANSWERS: 36. staggering, 37. electroencephalography, 38. unsupported, 39. complication, 40. biometric, 41. improvisation, 42. commodify

43. di_____nt and wrong-foot viewers *v.* to make someone confused about where they are or where they should go
44. he_____at abnormality *n.* the regular movement or sound of the heart as it sends blood around the body; an animating or vital unifying force
45. s__o organization *n.* a tall, cylindrical structure, usually made of concrete or steel, that is used for storing grain, feed, or other dry materials; a system or structure that is isolated or separate from others
46. gli_____oma treatment *n.* an aggressive and malignant type of brain tumor that arises from glial cells, particularly astrocytes, and is associated with a poor prognosis and high mortality rate
47. implanted pa_____er *n.* a small electronic device that is implanted in the chest to regulate the heartbeat of people with certain heart conditions; a person or thing that sets the pace or rhythm for others
48. em__d a sensor *v.* to fix or set firmly in a surrounding mass
49. hu___e race *n.* a barrier or obstacle that must be overcome
50. int_____te an enemy soldier *v.* to examine someone with questions over a lengthy period, especially in an aggressive manner
51. bi_____ic recognition *adj.* relating to the measurement and analysis of unique physical or behavioral characteristics of an individual, such as fingerprints or voice patterns, often used for identification or security purposes; (noun, biometrics) the use of measurable biological characteristics or traits, such as fingerprints, facial recognition, iris scans, or voice recognition, to identify or authenticate individuals

ANSWERS: 43. disorient, 44. heartbeat, 45. silo, 46. glioblastoma, 47. pacemaker, 48. embed, 49. hurdle, 50. interrogate, 51. biometric

52. a sense of wel_____ng *n.* the state of being happy and healthy and prosperous
53. fl_____sh worldwide *v.* to grow or develop vigorously or successfully
54. aut_____ate documents *v.* to confirm or verify the validity or authenticity of something; to prove or establish that something is genuine or true
55. become co_____nt *adj.* aware of or knowledgeable about something; having consciousness or recognition of something
56. int_____ted by police *v.* to examine someone with questions over a lengthy period, especially in an aggressive manner
57. pa_____er battery *n.* a small electronic device that is implanted in the chest to regulate the heartbeat of people with certain heart conditions; a person or thing that sets the pace or rhythm for others
58. re_____m land from the sea *v.* to take back something previously lost, given, or paid, or ask to have it back
59. co_____nt of the risk *adj.* aware of or knowledgeable about something; having consciousness or recognition of something
60. di_____nt his audience *v.* to make someone confused about where they are or where they should go
61. ne____n cell body *n.* a cell that is specialized to carry information within the brain and between the brain and other parts of the body

ANSWERS: 52. well-being, 53. flourish, 54. authenticate, 55. cognizant, 56. interrogate, 57. pacemaker, 58. reclaim, 59. cognizant, 60. disorient, 61. neuron

62. lif_____ng device *n.* the act or process of rescuing someone else's life, especially from drowning
63. aut_____ate software license *v.* to confirm or verify the validity or authenticity of something; to prove or establish that something is genuine or true
64. la____t my misfortunes *v.* to express sadness, grief, or disappointment about something, often by complaining or mourning
65. ha_____ng journey *adj.* causing distress or suffering; extremely distressing
66. imp_____ion on stage *n.* the act of making something up on the spot or creating or performing something without preparation
67. re_____n employees *v.* to teach or learn a new or different set of skills or knowledge, usually to adapt to a new job, situation, or technology
68. in_____st secrets *adj.* situated or occurring at the deepest or most central part or point; relating to one's deepest or most private thoughts, feelings, or experiences
69. ep_____sy medication *n.* a neurological disorder characterized by recurrent seizures or convulsions, which can manifest in a variety of ways and be caused by various factors
70. ter_____ng events *adj.* very frightening or intimidating
71. a me_____se application *n.* an imaginary immersive area that is facilitated by the use of virtual reality (VR) and augmented reality (AR) headsets

ANSWERS: 62. lifesaving, 63. authenticate, 64. lament, 65. harrowing, 66. improvisation, 67. retrain, 68. innermost, 69. epilepsy, 70. terrifying, 71. metaverse

72. overcome hu___es *n.* a barrier or obstacle that must be overcome
73. cerebral gli_____oma *n.* an aggressive and malignant type of brain tumor that arises from glial cells, particularly astrocytes, and is associated with a poor prognosis and high mortality rate
74. re_____m a competitive position *v.* to take back something previously lost, given, or paid, or ask to have it back
75. neu_____cal symptoms *adj.* of or relating to the science of neurology or the nervous system
76. in_____pt an enemy force *v.* to stop and catch someone or something to prevent them from continuing to a destination
77. de_____ia patients *n.* a severe decline in cognitive function, especially memory, as a result of disease or injury
78. int_____le situation *adj.* difficult to manage or control; stubborn or obstinate
79. nuclear s__o *n.* a tall, cylindrical structure, usually made of concrete or steel, that is used for storing grain, feed, or other dry materials; a system or structure that is isolated or separate from others
80. re___e my youth *v.* to experience again or bring back the memory of a past event or time
81. sport ea___ds *n.* a small electronic device that fits into the ear canal and is used for listening to music or for communication, especially when attached to a portable audio player or mobile phone

ANSWERS: 72. hurdle, 73. glioblastoma, 74. reclaim, 75. neurological, 76. intercept, 77. dementia, 78. intractable, 79. silo, 80. relive, 81. earbud

82. co_____fy athletes *v.* to turn something into an object of trade or commerce, particularly a good or service that was previously seen as having value beyond its market value
83. re_____ve the athlete from the competition *v.* to temporarily halt or cancel a punishment, especially death or other severe penalties; to provide temporary relief or break from something unpleasant or stressful; (noun) a temporary postponement or relief from something difficult or unpleasant, such as a punishment, a duty, or a difficult situation
84. ele_____phy test *n.* (also "EEG") a diagnostic medical procedure that involves the use of electrodes placed on the scalp to measure and record the electrical activity of the brain often used to assess and diagnose various neurological conditions
85. hos_____ze child *v.* to admit someone to a hospital for medical treatment
86. em__d scripts in the message *v.* to fix or set firmly in a surrounding mass
87. int_____le pain *adj.* difficult to manage or control; stubborn or obstinate
88. de___e a message *v.* to convert something, such as a message or piece of information, from a specific form into one that you can understand
89. uns_____ed rumor *adj.* not given financial or other aid; not having any proof or evidence

ANSWERS: 82. commodify, 83. reprieve, 84. electroencephalography, 85. hospitalize, 86. embed, 87. intractable, 88. decode, 89. unsupported

90. in_____st longings *adj.* situated or occurring at the deepest or most central part or point; relating to one's deepest or most private thoughts, feelings, or experiences
91. pro_____ly insightful *adv.* to a great or complete degree; deeply
92. re___e moments *v.* to experience again or bring back the memory of a past event or time
93. sleep pro_____ly *adv.* to a great or complete degree; deeply
94. publicly available da_____t *n.* a structured collection of data that is compiled and processed in a computer system or program, typically for analysis, research, or machine learning purposes
95. ind_____us worker *adj.* hardworking, diligent, and persistent in effort
96. a pounding he_____at *n.* the regular movement or sound of the heart as it sends blood around the body; an animating or vital unifying force
97. au_____t immunity *v.* to increase the size, extent, quantity, etc. of something by adding something to it
98. advanced neu_____ogy *n.* technology or advancements in the field of neuroscience, often related to the study or manipulation of the brain or nervous system
99. ep_____sy seizure *n.* a neurological disorder characterized by recurrent seizures or convulsions, which can manifest in a variety of ways and be caused by various factors

ANSWERS: 90. innermost, 91. profoundly, 92. relive, 93. profoundly, 94. dataset, 95. industrious, 96. heartbeat, 97. augment, 98. neurotechnology, 99. epilepsy

100. ter_____ng experience *adj.* very frightening or intimidating
101. me_____se technologies *n.* an imaginary immersive area that is facilitated by the use of virtual reality (VR) and augmented reality (AR) headsets
102. mac_____ing processor *n.* the process through which computers change the way they perform jobs without following explicit instructions by using algorithms and statistical models to analyze and draw inferences from patterns in data
103. ha_____ng battle *adj.* causing distress or suffering; extremely distressing
104. gro_____ing concept *adj.* producing fresh findings; using novel techniques

ANSWERS: 100. terrifying, 101. metaverse, 102. machine-learning, 103. harrowing, 104. groundbreaking

Session 3: Fill in the Blanks

1. He created a beautiful piece of music using only _____.
n. the act of making something up on the spot or creating or performing something without preparation
2. The _____ problem defied a solution.
adj. difficult to manage or control; stubborn or obstinate
3. Anonymous, brilliant artists create content on any platform in the _____.
n. an imaginary immersive area that is facilitated by the use of virtual reality (VR) and augmented reality (AR) headsets
4. New York is the commercial _____ of America.
n. the regular movement or sound of the heart as it sends blood around the body; an animating or vital unifying force
5. The company _____ a tracking code in the product's packaging to monitor its shipment.
v. to fix or set firmly in a surrounding mass
6. She is an _____ technician skilled in performing EEG tests on patients.
n. (also "EEG") a diagnostic medical procedure that involves the use of electrodes placed on the scalp to measure and record the electrical activity of the brain often used to assess and diagnose various neurological conditions
7. The governor decided to _____ the prisoner's death sentence temporarily.
v. to temporarily halt or cancel a punishment, especially death or other severe penalties; to provide temporary relief or break from something unpleasant or stressful; (noun) a temporary postponement or relief from something difficult or unpleasant, such as a punishment, a duty, or a difficult situation

ANSWERS: 1. improvisation, 2. intractable, 3. metaverse, 4. heartbeat, 5. embedded, 6. electroencephalography, 7. reprieve

8. Our body transfers information along each _____ using an electrical impulse.
n. a cell that is specialized to carry information within the brain and between the brain and other parts of the body
9. The Ottoman Empire _____ for over five centuries.
v. to grow or develop vigorously or successfully
10. I have to be _____ of my budget when I go on vacation.
adj. aware of or knowledgeable about something; having consciousness or recognition of something
11. The patient was diagnosed with a _____ disorder affecting their motor skills.
adj. of or relating to the science of neurology or the nervous system
12. It took years of therapy before the patient could reveal their _____ thoughts and feelings.
adj. situated or occurring at the deepest or most central part or point; relating to one's deepest or most private thoughts, feelings, or experiences
13. The new smartphone has _____ authentication, such as facial recognition and fingerprint scanning.
adj. relating to the measurement and analysis of unique physical or behavioral characteristics of an individual, such as fingerprints or voice patterns, often used for identification or security purposes; (noun, biometrics) the use of measurable biological characteristics or traits, such as fingerprints, facial recognition, iris scans, or voice recognition, to identify or authenticate individuals
14. Large earthquakes often generate _____ tsunamis.
adj. very frightening or intimidating

ANSWERS: 8. neuron, 9. flourished, 10. cognizant, 11. neurological, 12. innermost, 13. biometric, 14. terrifying

15. He bought noise-canceling _____ to help him concentrate while working in a noisy environment.
- n.* a small electronic device that fits into the ear canal and is used for listening to music or for communication, especially when attached to a portable audio player or mobile phone
16. It is illegal to _____ police radio.
- v.* to stop and catch someone or something to prevent them from continuing to a destination
17. Research in _____ is leading to groundbreaking advancements in brain-computer interfaces.
- n.* technology or advancements in the field of neuroscience, often related to the study or manipulation of the brain or nervous system
18. She plans to _____ in a new field after retiring from her current career.
- v.* to teach or learn a new or different set of skills or knowledge, usually to adapt to a new job, situation, or technology
19. The software could _____ the encrypted data and reveal the hidden information.
- v.* to convert something, such as a message or piece of information, from a specific form into one that you can understand
20. He also continued to struggle with serious long-term _____.
- n.* something that makes a situation or condition that is complex or confused
21. He has produced _____ research on the subject.
- adj.* producing fresh findings; using novel techniques

ANSWERS: 15. earbuds, 16. intercept, 17. neurotechnology, 18. retrain, 19. decode, 20. complications, 21. groundbreaking

22. Economic factors and monetary policy _____ inflation.
- v.* to increase the size, extent, quantity, etc. of something by adding something to it
23. You may be entitled to _____ some tax.
- v.* to take back something previously lost, given, or paid, or ask to have it back
24. My grandmother has _____ disease requires special care and attention from her caregivers.
- n.* a neurodegenerative disease that causes memory loss, cognitive decline, and behavioral issues; is the most common cause of dementia in older adults
25. The company faced several _____ in the development of its new product.
- n.* a barrier or obstacle that must be overcome
26. I like to watch old movies to _____ memories of my childhood.
- v.* to experience again or bring back the memory of a past event or time
27. The linguist studied the _____ of the language's inflection in speech.
- n.* a change in the pitch or tone of one's voice; a change in the form of a word to indicate tense, mood, gender, or other grammatical categories
28. The novel affected her _____ causing her to question her beliefs and values.
- adv.* to a great or complete degree; deeply
29. The scientist analyzed the large _____ to conclude the experiment.
- n.* a structured collection of data that is compiled and processed in a computer system or program, typically for analysis, research, or machine learning purposes

ANSWERS: 22. augmented, 23. reclaim, 24. Alzheimer's, 25. hurdles, 26. relive, 27. inflection, 28. profoundly, 29. dataset

30. The lawyer spent considerable time to adequately _____ the witness.
v. to examine someone with questions over a lengthy period, especially in an aggressive manner
31. Her _____ experience in the war had left her with deep emotional scars.
adj. causing distress or suffering; extremely distressing
32. The invention of the smartphone _____ the way we communicate with each other.
v. to bring about a complete or radical change in something, often through the introduction of new methods or ideas
33. The patient needs a _____ transplant operation.
n. the act or process of rescuing someone else's life, especially from drowning
34. The farmer used a _____ to store feed for the animals.
n. a tall, cylindrical structure, usually made of concrete or steel, that is used for storing grain, feed, or other dry materials; a system or structure that is isolated or separate from others
35. Removal of the central poll left the roof _____.
adj. not given financial or other aid; not having any proof or evidence
36. Several studies have indicated that human activity at sea might _____ dolphins and whales.
v. to make someone confused about where they are or where they should go
37. Some people with _____ may need to avoid certain activities or sources of electromagnetic interference.
n. a small electronic device that is implanted in the chest to regulate the heartbeat of people with certain heart conditions; a person or thing that sets the pace or rhythm for others

ANSWERS: 30. interrogate, 31. harrowing, 32. revolutionized, 33. lifesaving, 34. silo, 35. unsupported, 36. disorient, 37. pacemakers

38. Many software engineers are developing applications to build _____ algorithms more quickly.
- n.* the process through which computers change the way they perform jobs without following explicit instructions by using algorithms and statistical models to analyze and draw inferences from patterns in data
39. The _____ description of a website is an important element for search engine optimization.
- adj.* pertaining to or involving a higher or more abstract level of analysis, interpretation, or self-reference, often used to describe aspects of gaming, social media, or other online communities that involve self-conscious or self-referential elements
40. The flashing lights at the concert triggered her _____ and caused a seizure.
- n.* a neurological disorder characterized by recurrent seizures or convulsions, which can manifest in a variety of ways and be caused by various factors
41. She _____ the loss of her beloved cat.
- v.* to express sadness, grief, or disappointment about something, often by complaining or mourning
42. The amount of money required was _____.
- adj.* so shocking as to stun or overwhelm
43. The different parts of the system are _____ and rely on each other to function correctly.
- adj.* closely connected or related to each other
44. The security system requires users to _____ their identity before gaining access.
- v.* to confirm or verify the validity or authenticity of something; to prove or establish that something is genuine or true

ANSWERS: 38. machine-learning, 39. meta, 40. epilepsy, 41. lamented, 42. staggering, 43. interrelated, 44. authenticate

45. He was known to be very _____ and would often work late into the night.

adj. hardworking, diligent, and persistent in effort

46. We are responsible for the care and _____ of all our employees.

n. the state of being happy and healthy and prosperous

47. Many companies try to _____ popular trends to make a profit.

v. to turn something into an object of trade or commerce, particularly a good or service that was previously seen as having value beyond its market value

48. He became _____ in his job and stopped trying to improve.

adj. satisfied with the status quo and not wishing to make changes

49. She had to be _____ due to her injuries.

v. to admit someone to a hospital for medical treatment

50. We need to _____ the meeting for another hour to discuss all the issues.

v. to extend the duration or length of something, particularly a period of time or an event

51. The doctor explained the _____ prognosis to the patient and his family, stressing the seriousness of the condition.

n. an aggressive and malignant type of brain tumor that arises from glial cells, particularly astrocytes, and is associated with a poor prognosis and high mortality rate

52. The study found that regular exercise can help to prevent the onset of _____ in older age.

n. a severe decline in cognitive function, especially memory, as a result of disease or injury

ANSWERS: 45. industrious, 46. well-being, 47. commodify, 48. complacent, 49. hospitalized, 50. prolong, 51. glioblastoma, 52. dementia

ANSWERS: