| **Word** | **Meaning** |
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| **Automated system** | A combination of software and hardware designed to work automatically without human intervention. |
| **Distributed control system (DCS)** | A computer system that monitors and controls a process without human interaction. |
| **Adaptive cruise control** | The use of sensors, actuators, and microprocessors to keep a safe distance behind another vehicle. |
| **Accelerometer** | A sensor that measures acceleration and deceleration, detecting the orientation of a device. |
| **Robotics** | The branch of science focused on the design, construction, and operation of robots. |
| **Robot** | A mechanical device that performs tasks usually done by humans. |
| **Autonomous** | Able to operate independently without human input. |
| **Controller** | A microprocessor that controls a process. |
| **WebCrawler/search bot** | A software robot that scans websites and categorizes them, often used by search engines. |
| **Chatbots** | A pop-up robot on a website that interacts in conversation with a web user. |
| **End-effector** | An attachment to a robot arm that allows it to perform specific tasks, such as spray painting. |
| **LiDaR** | The use of lasers to create a 3D image of surroundings (light detection and ranging). |
| **Drone** | A flying robot, autonomous or remotely controlled, used for reconnaissance or deliveries. |
| **Phenotyping** | Observing the physical characteristics of a plant to assess its health and growth. |
| **Cognitive** | Related to the mental processes involved in acquiring knowledge and understanding. |
| **Artificial intelligence (AI)** | A system with rules and data that allows it to reason, learn, and adapt to external stimuli. |
| **Expert system** | A type of AI developed to mimic human knowledge and expertise. |
| **Explanation system** | Part of an expert system that explains the reasoning behind its conclusions and recommendations. |
| **Inference engine** | A search engine in an expert system that examines a knowledge base for information. |
| **Inference rules** | Rules used by the inference engine to draw conclusions, often using IF statements. |
| **Knowledge base** | A collection of objects and attributes, serving as a repository of facts. |
| **Object** | An item stored in a knowledge base. |
| **Attribute** | A characteristic that defines objects in a knowledge base. |
| **Rules base** | A collection of inference rules used to draw conclusions. |
| **Machine learning** | A subset of AI where algorithms are trained to learn from past experiences. |
| **Web scraping** | A method for extracting data from websites. |