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**ROLL NO-16010420133**

**BATCH-B1**

**Differentiate between AI application and Non AI Application with Example**

**AI application**

Artificial Intelligence has various applications in today's society. It is becoming essential for today's time because it can solve complex problems with an efficient way in multiple industries, such as Healthcare, entertainment, finance, education, etc. AI is making our daily life more comfortable and fast.

**Example**

Artificial Intelligence has a remarkable role in Robotics. Usually, general robots are programmed such that they can perform some repetitive task, but with the help of AI, we can create intelligent robots which can perform tasks with their own experiences without pre-programmed.

**Non AI Application**

A non-AI algorithm is written by a human, but an AI algorithm is written by a machine and this AI algorithm keeps evolving (that's why the term “Machine Learning”). A non-AI algorithm always gives the same output for a given input, but that may not necessarily be true for AI algorithms

**Example**

Despite its name, marketing automation is not AI, yet. Marketing automation involves you setting up automated workflows that can be triggered by the actions of your users, but every step is made by you

**Select a topic on any developed AI application. Domain/ Application**

Artificial Intelligence Applications: Agriculture

**Different Company/Vendor of such applications.**

-Blue River Technology has developed a robot called See & Spray

-Berlin-based agricultural tech start-up called PEAT, has developed an application called Plantix

**Describe AI application with its Features**

Organizations are using automation and robotics to help farmers find more efficient ways to protect their crops from weeds.

Robot called See & Spray uses computer vision technologies like object detection to monitor and precisely spray weedicide on cotton plants. Precision spraying can help prevent herbicide resistance.

Apart from this, Berlin-based agricultural tech, developed application called Plantix identifies potential defects and nutrient deficiencies in the soil through images.

The image recognition app identifies possible defects through images captured by the user’s smartphone camera. Users are then provided with soil restoration techniques, tips, and other possible solutions. The company claims that its software can achieve pattern detection with an estimated accuracy of up to 95%.

**Compare the features with others applications on your perceptions**

**Agriculture-**

The industry is turning to Artificial Intelligence technologies to help yield healthier crops, control pests, monitor soil, and growing conditions, organize data for farmers, help with the workload, and improve a wide range of agriculture-related tasks in the entire food supply chain.

**Use of weather forecasting**: With the change in climatic condition and increasing pollution it’s difficult for farmers to determine the right time for sowing seed, with help of Artificial Intelligence farmers can analyze weather conditions by using weather forecasting which helps they plan the type of crop can be grown and when should seeds be sown.

**Soil and crop health monitoring system**: The type of soil and nutrition of soil plays an important factor in the type of crop is grown and the quality of the crop. Due to increasing, deforestation soil quality is degrading and it’s hard to determine the quality of the soil.

**Plantix** that can identify the nutrient deficiencies in soil including plant pests and diseases by which farmers can also get an idea to use fertilizer which helps to improve harvest quality. This app uses image recognition-based technology. The farmer can capture images of plants using smartphones. We can also see soil restoration techniques with tips and other solutions through short videos on this application.

**Where as**

**Alexa** is capable of voice interaction, music playback, making to-do lists, setting alarms, streaming podcasts, playing audiobooks, and providing weather, traffic, sports, and other real-time information, such as news. Alexa can also control several smart devices using itself as a home automation system.

**Where as**

**Google assistant-**

Control your devices and your smart home.

Access information from your calendars and other personal information.

Find information online, from restaurant bookings to directions, weather and news.

Control your music.

Play content on your Chromecast or other compatible devices.

Run timers and reminders.

**Where as**

**AI camera** enhance your images, reduce noise for photos shot in low-light environments, sharpen blurry elements, capture true colors and much more through subject or scene recognition. It serves many purposes without needing additional hardware components.