**Tutorial-1**

**Search any 5 applications/products of AI from internet and describe in your word.**

1. **Self-Driving Cars :**

Self-driving cars are the ultimate sign that the future is upon us. Once considered science fiction, self-driving technology is slowly inching its way towards a driverless reality.

In fact, it’s expected that more than 33 million autonomous vehicles will be hitting the road by 2040. We can thank AI for the breakthroughs we’re seeing in a truly futuristic technology.

Artificial intelligence is literally driving the future of the self-driving car industry.

These cars are loaded with sensors that are constantly taking note of everything going on around the car and using AI to make the correct adjustments.

These sensors capture thousands of data points every millisecond (like car speed, road conditions, pedestrian whereabouts, other traffic, etc.), and use AI to help interpret the data and act accordingly- all in a blink-of-an-eye.

We may still have a long way to go until we’re fully capable of driving autonomously, but these companies below and paving the way towards an autonomous driving future.

1. **Finance :**

AI and the finance industry are a match made in heaven. The financial sector relies on accuracy, real-time reporting and processing high volumes of quantitative data to make decisions, all areas intelligent machines excel in.

As the industry takes note of AI's efficiency and accuracy, it is rapidly implementing automation, chatbots, adaptive intelligence, algorithmic trading and machine learning into financial processes.

One of the biggest financial trends of 2018 is the robo-advisor, an automated portfolio manager.

These automated advisors use AI and algorithms to scan data in the markets and predict the best stock or portfolio based on preferences.

Wealth management firms are turning towards robo-advisors, not only because it saves both the company and client time and money, but it also produces some extraordinary returns.

Here are a few examples of how artificial intelligence is changing the financial industry.

1. **Travel & Transportation :**

Artificial intelligence is becoming a mega-trend in the travel and transportation industries. From making travel arrangements to suggesting the most efficient route home after work, AI is making it easier to get around.

Travel companies are especially capitalizing on ubiquitous smartphone usage. More than 70% of users claim they book trips on their phones, review travel tips and research local landmarks and restaurants. One out of three people say they've used a virtual travel assistant to plan their upcoming trips.

AI-powered chatbots are rapidly changing the travel industry by facilitating human-like interaction with customers for faster response times, better booking prices and even travel recommendations.

For example, telling a travel chatbot you want to go to Paris might yield a natural language response suggesting flights, hotels and things to do in City of Light based on a user's preferences culled from the conversation.

Here are some examples of how artificial intelligence is being used in the travel and transportation industries.

1. **Social Media :**

With more than 2.77 billion active profiles across platforms like Twitter, Facebook and Snapchat, social media is in a constant battle to personalize and cultivate worthwhile experiences for users.

Artificial intelligence might make or break the future of the industry.

With its ability to organize massive amounts of data, recognize images, introduce chatbots and predict shifts in culture, AI is highly valuable to an industry with billions of users and about $45 billion in annual revenue.

Additionally, advanced machine learning is likely to prove critical in an industry that's under pressure to police fake news, hate speech and other bad actors in real time.

Here are a few examples of how some of the biggest names in the game are using artificial intelligence.

1. **E-Commerce :**

Ever scrolled through a website only to find an image of the exact shirt you were just looking at on another site pop up again? You can thank artificial intelligence for that.

Implementing machine learning into e-commerce processes enables companies to build personal relationships with customers.

AI-driven algorithms personalize the user experience, increase sales and build loyal and lasting relationships.

Companies use artificial intelligence to deploy chatbots, predict purchases and gather data to create a more customer-centric e-commerce experience.

Here's how some major e-commerce leaders are implementing AI to boost sales and loyalty.