

- Q1. How AI will impact of daily life, work life, work force, jobs, products & services.

Daily

\* Work life :-

Artificial Intelligence is acquiring force in our life. We can see Artificial Intelligence everywhere in our daily life which is most of our day to day activities are influenced by calculations or algorithms that can outperform human-level execution.

Artificial Intelligence can drastically upgrade human-level the efficiencies of our factories or workplaces like Business, Education, Healthcare Industries etc.

A Example for Artificial Intelligence on daily life is:-

Smart cars :- which prevents from number of accident cases, saves the drivers and passengers and maintains all the road signals. All these things are done by the smart cars, the smart cars drives on its own stops at traffic signals, takes turns and difficult roads carefully. The company Tesla has already laid its hands on self-driving cars, Tesla's automatic cars running in the United States, which is supposed to become double by the coming year. The machine learning capabilities of artificial Intelligence have made the idea of fully automated cars possible. These automated cars are programmed to stop at signals, slow down or stop whenever an obstacle is detected, control the speed limit, etc.

## Work Life :-

Artificial Intelligence is transforming the way we live and work. The Artificial Intelligence eliminates manual and repeated works of human and administers the work's of each and everyone in different ways at Companies, School, College, University etc.

The most effective impact of Artificial Intelligence on the work life or work place is the Face Recognition which is used to identify the employees and mark the daily timestamps when they enter and exits the company.

The Face Recognition System work in the order of capturing and scanning the face and extracting facial data and compares the captured face with the database and if the captured face matches to the database it identifies and marks the timestamp and allows if not it rejects the captured face and marks has not recognised. The main three steps of the face recognition is - face detection process is an essential step in detecting and locating human faces in images and videos.

• Face Capture process transforms analog information into digital information based on the person's facial features. The face match process verifies if two faces belong to the same

02. Report on all popular cloud services on different application.

An Artificial Intelligence cloud platform that tools and interface for data scientist, IT professionals and, increasingly, non-technical business staff to create AI-based applications. Such platforms must be available in the cloud, but some are supported in on-premises and hybrid configurations as well. All cloud platforms must provide automated machine learning, natural language and vision processing functionality.

### 1. AWS AI Services:-

AWS has leveraged its dominant position in cloud services to offer a broad range of AI services. Its offerings include machine learning for data scientists and developers, as well as ML-based business prediction tools for non-technical analysts within an organization.

Special use cases for large-scale healthcare, data and industrial equipment management are also available.

AWS gets high marks for its language capabilities, including translation services, and for its consistency of interface and APIs with its other cloud services.

The image and OCR services, as well as scale limits for some of its packaged business tools, have tempered some of its user scores for execution.

### 2. Microsoft Azure AI:

Microsoft's Azure Artificial Intelligence Services are designed for data scientists, developers and, in limited cases, some specifically trained business users.

The company gets particularly good scores for language services, including its speech recognition, translation, document and OCR, and chat bot functions.

Users also appreciate its ML capabilities, but some customers find its pricing levels to be challenging.

### 3. Google Cloud AI:

Google has long invested in AI and offers broad auto ML, deep learning, text, and language, and vision capabilities. Its target users are data scientists and developers.

The company unified its UI and APIs under the Vertex AI banner and launched the TensorFlow, a python-based, machine learning and artificial intelligence framework for deep neural networks in 2015.

Google's Alphabet parent company continues to invest heavily in AI R&D both internally and via acquisition.

Users of Google Cloud AI like its integration with other Google services, such as BigQuery, and its ease of testing to scale new models and applications. Some customers praise its natural language and vision capabilities. Some, however, would like to see better documentation and customer support, as well as greater ease of use.

#### 4. IBM Watson Studio:

The IBM Watson Studio provides a range of AI and ML services. It runs on the IBM cloud Pak for Data, which is a cloud-native AI and data platform as well as in SaaS and on-premises configurations.

As part of the company's strategic emphasis on hybrid cloud and AI capabilities, IBM supports higher level consulting and integration services, traditional data science and developer users, and, with Watson Orchestrate, non-technical business users.

Users praise Watson's drag and drop interface, which is sufficiently intuitive for non-technical business analysts and helps the product to scale from quick prototypes to the large-scale processing of unstructured data use cases. Lower satisfaction is reported for its real-time data integration and pre-built model capabilities.

## 5. Tencent Cloud

Chinese tech behemoth Tencent (provider as well of WeChat messaging, gaming, online advertising, streaming entertainment, etc.) offers an AI platform among its many cloud services. Although Tencent has a research facility in the US, it still primarily generates sales in China, where it also has a rich partner ecosystem.

The company is investing heavily in its vision and ML technology, in particular but already has a range of speech, video and sentiment analysis; and computer vision and facial recognition capabilities.

### 03. Examples of AI in real world.

AI is being used in a wide variety of industries today, including Healthcare. It is being used to develop new drugs and treatments, diagnose diseases, and provide personalized care. Finance: It is being used to detect fraud, manage risk and provide investment advice.

#### Ride-Sharing Service (Uber, Lyft, etc.)

Ride-sharing services like Uber and Lyft utilize AI in several aspects of their operations to provide efficient and convenient transportation solutions.

##### 1. Matching Riders and Drivers

When a rider requests a ride, Artificial Intelligence algorithms quickly analyze various factors such as the rider's location, the availability of nearby drivers, traffic conditions, and estimated travel times to match the rider with the most suitable driver.

##### 2. Dynamic Pricing

AI-driven pricing algorithms adjust fares based on real-time factors like demand, traffic congestion, and time of day. This helps balance supply and demand while providing price transparency to users.

### 3. Route Optimization

AI algorithms help drivers find the most efficient routes to their destinations, taking into account traffic conditions, road closures, and other variables. This ensures that riders reach their destinations as quickly as possible.

### 4. Predictive Analytics

Ride-sharing companies use AI to predict rider demand patterns and driver availability in different areas. This information helps allocate resources effectively and reduce wait times for riders.

### 5. Safety Features

AI-driven safety features monitor trips in real time to identify any unusual behavior or potential safety concerns. For instance, if a trip deviates significantly from the expected route, the system may trigger an alert to both the rider and the company's safety team.

### 6. Customer Support

AI-powered chatbots and virtual assistants handle customer queries and concerns, providing instant responses and assisting with common issues like fare disputes, lost items, and account problems.

## 7. Driver Behavior Analysis

AI can analyze driver behavior, such as braking, acceleration, and adherence to speed limits to encourage safe driving practices and improve overall road safety.

## 8. Fraud Detection

AI algorithms can detect suspicious activities, such as fake accounts or fraudulent credit card usage, helping to maintain the integrity of the platform.

By integrating AI into their operations, ride-sharing services enhance user experiences, optimize resource allocation, and improve overall service quality. These examples highlight how everyday activities are provided more efficient and convenient solutions.

## Work force:-

The Artificial Intelligence now days is slowly acquiring in our personal and professional lives. While coming to professional life the Artificial Intelligence will reduce the repeated works which is done by human daily like marking the timestamp and in Education attendance, grading etc.

One of the best example of Artificial Intelligence on work force is chatbots. An Artificial Intelligence chatbots became a must for teams that have daily direct interactions with customers and rely on fast, accurate, and timely customer support.

The chatbot reduced the information gathering to initiating the process of filing customer complaints, the manual time needed to complete these tasks has been reduced. It also improved the overall customer experience. Reducing administrative tasks will also help to eliminate human error from your customer operations.

Chatbots won't completely take over customer support, but they can handle repetitive tasks and help customer support agents perform better at their jobs. There are already Artificial Intelligence tools that use behavioral science to help customers service agents provide better support.