

- ##### Brief About Industry and growth potential in 50 words.

An industry is a group of companies that are related based on their primary business activities. In modern economies, there are dozens of industry classifications. Industry classifications are typically grouped into larger categories called sectors.

Industry growth is the change in the output, value, or size of an industry over time. It can be measured by various indicators, such as sales, profits, employment, market share, productivity, innovation, or competitiveness

- ### Problems That are being and can be solved using AI in the following Industry

### 1) Health care

#### 1. Increasing Effectiveness of Diagnostic Processes

One reason to implement AI in healthcare is to improve diagnostic effectiveness. Large caseloads and a lack of medical history may increase the possibility of human error in healthcare settings. In comparison to clinicians, AI systems can detect and diagnose diseases quicker and with minimal risk of error.

#### 2. Reducing Overall Healthcare Costs

AI can be employed to make diagnosis processes more efficient, which in turn, reduces the total cost of healthcare procedures. For example, consider a case when AI can scan through millions of diagnostic images to look for disease symptoms. It eliminates the need for expensive manual labor. Moreover, patients can receive faster and more effective care, which reduces the need for hospital admissions and long waiting periods.

#### 3. Safer Surgeries

By offering effective and distinctive aid in surgery, AI is establishing a position for itself in healthcare robotics. AI's ability to perform less invasive surgical procedures that might otherwise require open surgery provides a wide range of benefits to patients, such as reduced blood loss, decreased infection risk, and less pain after surgery. Moreover, due to AI's capacity to offer more precision while operating on delicate organs and tissues, patients need smaller incisions and also experience reduced scarring and faster recovery times.

#### 4. Easy Information Sharing

The ability of AI algorithms to analyze vast amounts of information quickly is the key to fulfilling the potential of this technology in precision medicine. For instance, currently, 11.3% of the American population has diabetes. The condition has to be treated and managed urgently, and AI can assist healthcare professionals in understanding the disease through data via a real-time glucose monitoring system.

### 2) Finance

Credit risk as well as environmental measurement and reporting are areas of significant concern to financial institutions, and artificial intelligence (AI) can play a major role in improving efficiencies and outcomes in these areas from a finance technology (FinTech) perspective.

### 3) E-commerce

There are many examples of AI in e-commerce, including personalized product recommendations, chatbots, virtual shopping assistants, dynamic pricing, fraud detection, and logistics optimization. AI can also help analyze customer reviews to improve product design and marketing strategies.

### 4) Real Estate

AI-powered real estate enables accurate property valuations, personalized property recommendations, efficient lead generation, smart property management, data-driven decision-making, and so on. It helps redefines the way real estate businesses buy, sell, and invest in properties.

### 5) Travel

This prospect raises a critical question of where travel companies should target AI investments as they increase their AI maturity. The most promising applications for AI in Travel in terms of transforming experiences include customized travel planning and online customer service through chatbots, face-to-face traveler service though robots, facial recognition and identity management through biometrics, and dynamic pricing and predictive data analytics through AI and machine learning.

### 6) Social Networking

Improved personalization and targeting: AI can be used to personalize social media content for individual users based on their interests, demographics, and other factors. This can help to improve engagement and reach a wider audience.

### 7) Education

AI can help students identify personal and educational goals as well as the steps to achieve them. It doesn't provide answers; it provides possibilities: launching points for discussion. Through a meaningful, personalized dialogue, a student can prepare for an in-person meeting with their counselor.

### 8) Agri-Tech

AI systems are helping to improve the overall harvest quality and accuracy – known as precision agriculture. AI technology helps in detecting disease in plants, pests and poor nutrition of farms. AI sensors can detect and target weeds and then decide which herbicide to apply within the region.

### 9) Oil and Gas

AI solutions for oil and gas are enhancing safety through predictive maintenance. By continuously monitoring equipment health and performance, AI algorithms can detect anomalies and potential failures before they escalate into safety hazards.

### 10)Smart City

Since the epidemic hit cities in 2019, the healthcare industry has intensified its AI-based advances by 60%. According to the analysis, AI algorithms such as ANN, RNN/LSTM, CNN/R-CNN, DNN, and SVM/LS-SVM have a higher impact on the various smart city domains.

AI-powered smart city systems can collect and analyze data from a wide variety of municipal services. All sorts of problems, from traffic to criminality, can be solved in "smart cities" thanks to the combination of AI and analytics based on data collected by sensors throughout the urban environment.

### 11) 5G

AI can improve 5G networks by improving network security, providing more network efficiency, enhancing service quality and offering more simplified deployment. In addition, 5G devices can see improvements thanks to AI machine learning in system performance, security and device experience.

### 12) Finance

It can analyze high volumes of data and make informed decisions based on clients' past behavior. For example, the algorithm can predict customers at risk of defaulting on their loans to help financial institutions adjust terms for each customer accordingly and retain them.

### 13) Game and Sport

AI in sports can be used to identify patterns and trends with the help of data analysis. The information gathered from data sports coaches and officials to determine the whereabouts of every place on the scale of fitness and performance. This results in strategic decision-making and improved preparation