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Artificial Intelligence Apps for Android Phones

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ABSTRACT: Artificial intelligence refers to the simulation of human intelligence in machines that are programmed to think like humans and mimic their actions. The term may also be applied to any machine that exhibits traits associated with a human mind such as learning and problem-solving. The ideal characteristic of artificial intelligence is its ability to rationalize and take actions that have the best chance of achieving a specific goal. Deep learning techniques enable this automatic learning through the absorption of huge amounts of unstructured data such as text, images, or video. When most people hear the term artificial intelligence, the first thing they usually think of is robots. The applications for artificial intelligence are endless. The technology can be applied to many different sectors and industries. AI is being tested and used in the healthcare industry for dosing drugs and different treatment in patients, and for surgical procedures in the operating room. Other examples of machines with artificial intelligence include computers that play chess and self-driving cars. In this paper we studied some most popular artificial intelligence apps for android based mobile phones.

KEYWORDS: Artificial intelligence, Apps, Android, Mobile phones, Google play store

I. INTRODUCTION

Artificial intelligence (AI) refers to the simulation of human intelligence in machines that are programmed to think like humans and mimic their actions. The term may also be applied to any machine that exhibits traits associated with a human mind such as learning and problem-solving. Artificial intelligence is an area of computer science that emphasizes the creation of intelligent machines that work and react like humans. The processes include learning, reasoning and self-correction. AI is accomplished by studying how human brain thinks, and how humans learn, decide, and work while trying to solve a problem.

The ideal characteristic of artificial intelligence is its ability to rationalize and take actions that have the best chance of achieving a specific goal. A subset of artificial intelligence is machine learning, which refers to the concept that computer programs can automatically learn from and adapt to new data without being assisted by humans. Deep learning techniques enable this automatic learning through the absorption of huge amounts of unstructured data such as text, images, or video.

Discover how to build intelligent applications centered on images, text, and time series data. It is used extensively across many fields such as search engines, image recognition, robotics, medical, finance, and so on. An AI app is any application that integrates artificial intelligence into its functions and services. Any app can become an AI application provided the need is there. AI has helped companies such as Google, IBM, Intel, Microsoft Azure, Qualcomm, Netflix and Amazon to improve their customer experience and therefore encouraged more and more people to use them. Currently, chatbots are one of the leading areas of AI development. Applications such as Apple's Siri and Microsoft's Cortana are the best in this field.

Artificial intelligence, the ability of a digital computer or computer-controlled robot to perform tasks commonly associated with intelligent beings. The term is frequently applied to the project of developing systems endowed with the intellectual processes characteristic of humans, such as the ability to reason, discover meaning, generalize, or learn from past experience. It has been demonstrated that computers can be programmed to carry out very complex tasks, for example, discovering proofs for mathematical theorems or playing chess with great proficiency. Still, despite continuing advances in computer processing speed and memory capacity, there are as yet no programs that can match



human flexibility over wider domains or in tasks requiring much everyday knowledge. On the other hand, some programs have attained the performance levels of human experts and professionals in performing certain specific tasks, so that artificial intelligence in this limited sense is found in applications as diverse as medical diagnosis, computer search engines, and voice recognition, text to voice conversion or handwriting recognition.

When most people hear the term artificial intelligence, the first thing they usually think of is robots. That's because big-budget films and novels weave stories about human-like machines that wreak havoc on Earth. Some believe that innovators may soon be able to develop systems that exceed the capacity of humans to learn or reason out any subject. But others remain skeptical because all cognitive activity is laced with value judgments that are subject to human experience. AI is continuously evolving to benefit many different industries. Machines are wired using a cross-disciplinary approach based on mathematics, computer science, linguistics, psychology, and more. Algorithms often play a very important part in the structure of artificial intelligence, where simple algorithms are used in simple applications, while more complex ones help frame strong artificial intelligence.

Since its beginning, artificial intelligence has come under scrutiny from scientists and the public alike. One common theme is the idea that machines will become so highly developed that humans will not be able to keep up and they will take off on their own, redesigning themselves at an exponential rate. Another is that machines can hack into people's privacy and even be weaponized. Other arguments debate the ethics of artificial intelligence and whether intelligent systems such as robots should be treated with the same rights as humans.



Fig.1. Artificial Intelligence. Source: <https://www.cision.com/2019/01/artificial-intelligence-PR/>

II. MATERIALS AND METHODS

For this study of Artificial Intelligence apps for android phones, we used electronic gadgets namely android based phones, laptops. Artificial Intelligence apps were downloaded on mobile phones and on laptops. High speed internet facilities were used namely, broadband internet, Wi-Fi, wireless networks, fibre optic internet services, hotspots and mobile internet for downloading and testing the apps. Internet browser software viz. Google chrome, Mozilla Firefox, Edge were used for opening the google play store and other related websites for study from the internet. Search engines like Google, Google Scholar and others have been used for searching the artificial intelligence apps and related information. These apps were downloaded from google play store, and installed on mobile and laptops. Similarly, secondary data are collected from the google play store of a particular app and from the other websites. All related data are collected, validated, tabulated, summarised and analysed by using different statistical analysis software and data analysis tools. Artificial intelligence apps data are given in table and results of data analysis have been presented in this paper.



III. APPLICATIONS OF ARTIFICIAL INTELLIGENCE

The applications for artificial intelligence are endless. The technology can be applied to many different sectors and industries. AI is being tested and used in the healthcare industry for dosing drugs and different treatment in patients, and for surgical procedures in the operating room. Other examples of machines with artificial intelligence include computers that play chess and self-driving cars. Each of these machines must weigh the consequences of any action they take, as each action will impact the end result. In chess, the end result is winning the game. For self-driving cars, the computer system must account for all external data and compute it to act in a way that prevents a collision. Self-driving cars have been fairly controversial as their machines tend to be designed for the lowest possible risk and the least casualties. If presented with a scenario of colliding with one person or another at the same time, these cars would calculate the option that would cause the least amount of damage.

Another contentious issue many people have with artificial intelligence is how it may affect human employment. With many industries looking to automate certain jobs through the use of intelligent machinery, there is a concern that people would be pushed out of the workforce. Self-driving cars may remove the need for taxis and car-share programs, while manufacturers may easily replace human labor with machines, making people's skills more obsolete.

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. Applications of AI are in astronomy, military, healthcare, video games, law and enforcement, media and e-commerce, navigations, robotics, human resource, agriculture, automobiles, travel and transport, social media, data security, education, marketing and so on.

IV. ARTIFICIAL INTELLIGENCE WORKING

Building an AI system is a careful process of reverse engineering human traits and capabilities in a machine, and using its computational prowess to surpass what we are capable of. For artificial intelligence working, everyone needs to deep dive into the various sub domains of Artificial Intelligence and understand those domains could be applied into the various fields of the industry.

- Machine Learning: ML teaches a machine how to make inferences and decisions based on past experience. It identifies patterns, analyses past data to infer the meaning of these data points to reach a possible conclusion without having to involve human experience. This automation to reach conclusions by evaluating data, saves a human time for businesses and helps them make a better decision.
- Deep Learning: Deep Learning is an ML technique. It teaches a machine to process inputs through layers in order to classify, infer and predict the outcome.
- Neural Networks: Neural Networks work on the similar principles as of Human Neural cells. They are a series of algorithms that captures the relationship between various underlying variables and processes the data as a human brain does.
- Natural Language Processing: NLP is a science of reading, understanding, interpreting a language by a machine. Once a machine understands what the user intends to communicate, it responds accordingly.
- Computer Vision: Computer vision algorithms try to understand an image by breaking down an image and studying different parts of the objects. This helps the machine classify and learn from a set of images, to make a better output decision based on previous observations.
- Cognitive Computing: Cognitive computing algorithms try to mimic a human brain by analysing text/speech/images/objects in a manner that a human does and tries to give the desired output.

V. PURPOSE OF ARTIFICIAL INTELLIGENCE

The purpose of Artificial Intelligence is to aid human capabilities and help us make advanced decisions with far-reaching consequences. That's the answer from a technical standpoint. From a philosophical perspective, Artificial Intelligence has the potential to help humans live more meaningful lives devoid of hard labour, and help manage the complex web of interconnected individuals, companies, states and nations to function in a manner that's beneficial to all humanity.



Currently, the purpose of Artificial Intelligence is shared by all the different tools and techniques to simplify human effort, and to help us make better decisions. Artificial Intelligence has also been touted as our final invention, a creation that would invent groundbreaking tools and services that would exponentially change how we lead our lives, by hopefully removing strife, inequality and human suffering. That's all in the far future though we are still a long way from those kinds of outcomes. Nowadays, Artificial Intelligence is being used mostly by companies to improve their process efficiencies, automate resource-heavy tasks, and to make business predictions based on hard data rather than gut feelings.

VI. ADVANTAGES OF ARTIFICIAL INTELLIGENCE

- Reduction in human error
- Available 24x7
- Helps in repetitive work
- Digital assistance
- Faster decisions
- Rational Decision Maker
- Medical applications
- Improves Security
- Efficient Communication

VII. ARTIFICIAL INTELLIGENCE APPS

Nowadays, there are some hundreds of artificial intelligence apps available worldwide for different operating systems such as android, ios, mac, apple, windows and linux. All these apps can be used on desktop computers, laptops, tablet, smart phones, or any other electronic gadgets. More than 200 Artificial Intelligence apps are available on Google Play store for android mobile phones which can be installed and use on smart phones. We have given below the list of artificial intelligence apps mostly downloaded from Google Play Store and used by the user for their different types of artificial intelligence applications on their smart phones.

VIII. RESULTS AND DISCUSSIONS

Table1 below shows the list of artificial intelligence apps for Android smart phones. Data given in the table below are names of artificial intelligence apps, date of updating the app, app size in MB, latest version available, required android operating system for mobile phones, number of installs and download with reviews available on mobile phones from the google play app, app developer and their address, its ranking and so on.



Table 1: Artificial Intelligence Apps

Name of Artificial Intelligence Apps	Updated	Size	Applications	Installs and Reviews	Current Version	Requires Android	Rating	Name of Developer
Gradient: AI Photo Editor	January 26, 2021	94M	Photography	10,000,000+ Reviews 179,779	2.1.5	5.0 and up	Rated for 3+	TICKET TO THE MOON, INC., 919 North Market Street, Suite 950 Wilmington, Delaware 19801
Replika: My AI Friend	May 23, 2021	127M	Health & Fitness	5,000,000+ Reviews 346,292	7.1.0	6.0 and up	Rated for 16+	Luka, Inc, 1266 Harrison St San Francisco, CA 94103 United States
Virtual Assistant DataBot: Artificial Intelligence	January 14, 2021	36M	Entertainment	5,000,000+ Reviews 118,720	8.1.1	4.4 and up	Rated for 3+	RoboBot Studio, Andrea Testa Via Giacomo Leopardi n.25 24020 Ranica (BG) ITALY
ELSA Speak: Online English Learning & Practice App	May 14, 2021	24M	Education	5,000,000+ Reviews 191,671	6.2.9	4.2 and up	Rated for 3+	ELSA, 139 Old Orchard Drive, Los Gatos, CA 95032
Brilliant	April 20, 2021	17M	Education	1,000,000+ Reviews 71,298	6.1.0	5.0 and up	Rated for 3+	Brilliant.org, 15 Butte Place San Francisco, CA 94103
Deep Art Effects - AI Photo Filter & Art Filter	March 24, 2021	25M	Deep Art Effects GmbHPphotography	1,000,000+	2.0.6	4.1 and up	Rated for 3+	Deep Art Effects GmbH, Kriegsstrasse 82 76133 Karlsruhe Germany
Wysa: anxiety, depression & sleep therapy chatbot	May 27, 2021	8.4M	TouchkinHealth & Fitness	1,000,000+	2.6.6	4.1 and up	Rated for 3+	Touchkin, Touchkin Eservices Private Limited, Indiranagar, Bengaluru 560038
Robin - AI Voice Assistant	May 27, 2021	17M	Maps & Navigation Free	1,000,000+ Reviews 60,495	5.57	4.1 and up	Rated for 3+	Audioburst, 50 Saratoga Ave, Santa Clara, CA 95051
Youper AI Therapy for Anxiety & Depression	March 15, 2021	88M	Medical	1,000,000+ Reviews 49,182	9.02.007	7.0 and up	Rated for 3+	Youper, Inc, 1390 Market Street, Suite 200, San Francisco, CA 94102
Andy - English Speaking Bot	February 11, 2021	30M	Education	1,000,000+ Reviews 133,037	3.0.0	5.0 and up	Rated for 3+	ZTO Labs, Moscow, Yablochkova 49
Programming Hub: Learn to code	May 9, 2021	Varies with device	Education	5,000,000+ Reviews 145,319	Varies with device	Varies with device	Rated for 3+	Coding and Programming, RightSol PTE LTD WeWork 1161 Mission St San Francisco, CA 94103
edX: Online Courses by Harvard, MIT, Berkelev. IBM	May 5, 2021	19M	Education	5,000,000+ Reviews 84,949	Varies with device	Varies with device	Rated for 3+	edX



GRADIENT: AI PHOTO EDITOR

Gradient is the most advanced AI-powered photo app in the world. Exclusive and popular AI effects, the most accurate beauty tools and a professional photo editor - all in one app. Its latest version 2.1.5 updated on January 26, 2021 and can be used on android 5.0 and above smart phones. Its size is 94 MB and is downloaded by more than 10 million users from google play store. There are more than 10 million happy users of this app. This AI create classical style portrait with the best AI painting technology in the world. Resize eyes and lips, adjust skin tone, change the colour of your hair - all these and many more features is helping the users highlight natural beauty.

REPLIKA

Replika is a popular chatbot companion powered by artificial intelligence. Join millions talking to their own AI friends. Its latest version 7.1.0 updated on May 23, 2021 and can be used on android 6.0 and above smart phones. Its size is 127 MB and is downloaded by more than 5 million users from google store. The App is rated for 16 and above and is very much popular. Any android or iOS user can easily use it. Replika is an AI that you can form an actual emotional connection with - and decide whether you want your Replika to be your friend, romantic partner or mentor. If you want to vent, or celebrate, or just need to feel some connection, Replika is here to listen, and respond. Like a true friend. Create your own unique chatbot AI companion, help it develop its personality, talk about your feelings or anything that's on your mind, have fun, calm anxiety and grow together. This is health and fitness app.

VIRTUAL ASSISTANT DATABOT: ARTIFICIAL INTELLIGENCE

DataBot is the most fun virtual assistant for android. This AI answers with its voice to your requests upon topic you are interested in. Apps and services integrated in your assistant give back to you images, voice search and multimedia presentations. Its latest version 8.1.1 updated on January, 14, 2021 and can be used on android 4.4 and above smart phones. Its size is 36 MB and is downloaded by more than 5 million users from google play store. Use your personal assistant while you travel, work, study, play or relax. it will search for you what you wish to know or listen, in few seconds. Creates customized multimedia presentations using voice, text and images. Creates summarizing pages containing: your answer, related details, materials, search services, links. Allows you to easily share answers using SMS, Email and social networks. DataBot is cross-platform: use the same assistant on your smartphone, tablet, or laptop. AI assistant is totally available using voice search as Jarvis. It speaks your language – DataBot is available in English, Spanish, French, Italian, German, Portuguese. This smart artificial intelligence is among the best assistant for android. This artificial intelligence app is able to chat like a real human.

ELSA SPEAK: ONLINE ENGLISH LEARNING & PRACTICE APP

ELSA (English Language Speech Assistant) is an English pronunciation app that helps you speak English confidently and clearly. Over 5 million people have used ELSA's award winning, artificially intelligent speech-recognition technology to learn English pronunciation. Its latest version 6.2.9 updated on May, 14, 2021 and can be used on android 4.2 and above smart phones. Its size is 24 MB and is downloaded by more than 5 million users from google play store. ELSA can help user for Study English for IELTS, TOEFL, TOEIC exams, and even for your ESL classes. Students and working professionals from over 130+ countries use ELSA to learn English fast. User can practice from over 1,600 lessons covering all English sounds and over 40 topics ranging from travel tips to job interviews for user to explore.

OTHER AI APPS

Similarly, some apps like Brilliant, Deep art, WYSA, Robin, Youper, Andy, Programming hub, edXare also popular AI apps for different applications which helps the users for betterment of human beings. These apps have been downloaded by more than 1 million users for their android phones.

IX. CONCLUSION

Artificial intelligence is an area of computer science that emphasizes the creation of intelligent machines that work and react like humans. The term artificial intelligence refers to any human-like intelligence exhibited by a computer, robot, or other machine. In popular usage, artificial intelligence refers to the ability of a computer or machine to mimic the capabilities of the human mind—learning from examples and experience, recognizing objects, understanding and responding to language, making decisions, solving problems and combining these and other capabilities to perform functions a human might perform, such as greeting a hotel guest or driving a car. An AI app is any application that integrates artificial intelligence into its functions and services. Any app can become an AI application provided the need is there.



AI has helped companies such as Google, IBM, Intel, Microsoft Azure, Qualcomm, Netflix and Amazon to improve their customer experience and therefore encouraged more and more people to use them. Building an AI system is a careful process of reverseengineering human traits and capabilities in a machine, and using its computational prowess to surpass what we are capable of. The purpose of Artificial Intelligence is shared by all the different tools and techniques to simplify human effort, and to help us make better decisions. There are few popular artificial intelligence apps which are used by more than millions of users around the world and installed from Google Play Store are Gradient, Replika, Databot, Elsa, Brilliant, Deepart effects, Wysa, Robin, Youper, Andy, Programming hub, eDx, Xtreme.

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