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Ai writes python code

Step 3: Generate a code that AI will implement the new model within a few seconds, using the original code as a template. The new code is then available for download. The \$5 promotion runs from December 15, 2020 to January 13, 2021. This is the encoderspository for artificial intelligence with Python, published by Packt. It contains all the support project files necessary to work through the book from start to finish. About the book During this book you will find out how to make informed decisions about which algorithms to use in a given context. From the basics of artificial intelligence, you will learn how to develop different building blocks using various data mining techniques. You will see how to implement different algorithms to get the best results, and will understand how to apply them to real-world scenarios. If you want to add an intelligence layer to a program based on images, text, stock market or any other form of data, this exciting book about artificial intelligence will definitely be your guide! ##Instructions and navigation All the code is organized into folders. Each folder starts with a number followed by the program name. For example, chapter02. The code will look like this: A code block is set as follows: [default] exten = > s,1,Dial(Zap/1/30) exten = > s,2,VoiceMail(u100) exten = > s,102, VoiceMail (b100) exten = > i,1, VoiceMail (s0) This book is focused on artificial intelligence in Python as opposed to Python itself. We have used Python 3 to build various applications. We focus on how you can use different Python libraries in the best way possible to build real-world applications. In this spirit, we have tried to keep all the code as friendly and readable as possible. We feel that this will enable our readers to easily understand the code and easily use it in different scenarios. Suggestions and feedback from related products Click here if you have feedback or suggestions. An AI personal assistant is a piece of software that understands verbal or written commands and completes the task assigned by the client. It is an example of weak AI which is it can only perform and perform the search designed by the user. Want to build your own personal AI assistant like Apple Siri, Microsoft Cortana and Google Assistant? You can check out this blog to build one in a few easy steps! With python programming language, a script most commonly used by the developers can be used to build your personal AI assistant to perform task designed by users. Photo credits: FreepikNow, let's write a script for our personal voice assistant using python. Skills:The implemented voice assistant can perform the following task it can open YouTube, Gmail, Google chrome and stack overflow, Predict current time, take a picture, search Wikipedia to abstract necessary data, predict the weather in different get top headline news from the Times of India and can answer computational and geographical questions as well. The following queries from the voice assistant can be manipulated according to the needs of the users. Packages required:To build a personal voice assistant, it is necessary to install the following packages in the system using the pip command.1) Speech recognition – Speech recognition is an important feature used in house automation and artificial intelligence devices. The main feature of this library is that it tries to understand what people are talking and converts the speech to text.2) pyttsx3 - pyttsx3 is a text to speech conversion library in python. This package supports text to speech engines on Mac os x, Windows, and on Linux.3) wikipedia — Wikipedia is a multilingual web encyclopedia used by many people from academic environments ranging from freshmen to students to professors who want to get information about a particular topic. This package in python extracts data required from Wikipedia.4) ecapture - This module is used to take pictures from the camera5) datetime - This is a built-in module in python and it works on date and time6) os - This module is a standard library in python, and it provides the feature to interact with the operating system7) time - The time module helps us view the time8) browser - This module is a built-in package in Python. It extracts data from web9) Subprocess - This is a standard library used to process various system commands such as logging off or restarting the PC.10) Json-Json module is used for storing and exchanging data.11) request module used to send all types of HTTP request. Its accepts URL as parameters and provides access to the given URL'S.12) tungsten alpha - Wolfram Alpha is an API that can calculate expert-level responses using Wolfram's algorithms, knowledge base and AI technology. It is made possible by Wolfram Language.Implementation:Import the following librariesSet up the speech engine: The Pyttsx3 module is stored in a variable name engine. Sapi5 is a Microsoft Text to Speech engine used for speech recognition. The speech ID can be set as either 0 or 1.0 indicating That male voice1 indicates female voiceNow define a function speak that converts text to speech. The speak function takes the text as argument, initializing the engine.runAndWait: This function blocks while processing all commands in queue. It enables callbacks for engine alerts correctly and returns when all commands queued before that call is cleared from the queue. Start a function to greet the user:Define a function wishMe for the AI assistant to greet the user. Now().hour function abstract is the hour from the current time. If the hour is greater than zero and less than 12, the voice assistant wants you with the message Good morning. If the hour is than 12 and less than 18, the voice assistant wishes you with the following message Good afternoon. Otherwise, it sounds like good eveningSetting up the command function for your AI assistant :D find a feature taken for the AI assistant to understand and accept human language. The microphone captures the human speech and recognizes the speech to give an answer. The exception handling is used to handle the exception during the runtime error, and recognize_google use google audio to recognize speech. Main function:The main function starts from here,the commands given by the people are stored in the variable statement. If the following trigger word is there in the statement given by users, enable the virtual assistant to speak below commands. Skill 1 - Retrieving data from Wikipedia:The following commands help extract information from wikipedia. The Wikipedia.summary() function takes two arguments, the statement given by the user and how many sentences from wikipedia are needed to be retrieved are stored in a variable result. Skill 2 - Access to browsers - Google chrome, G-Mail and YouTube: The browser extracts data from the web. The function open_new_tab accepts the URL as a parameter that must be accessed. The Python time sleep function is used to add delay to the performance of an application. We can use this feature to stop the implementation of the program for granted time in seconds. Skill 3 -Predicting time:Current time is abstracted from datetime.now() function that shows hour, minute and second and is stored in a variable name strTime.Skill 4 -To retrieve the latest news: If the user wants to know the latest news, the Voice Assistant is programmed to retrieve top headline news from Time of India using the browser feature. The Skill 5 -Capturing photo:Ec.capture() function is used to take photos from the camera. It accepts 3 parameter. Camera index — The first connected webcam will be set as index 0, and the next webcam will be set as index 1Window name - It can be a variable or a string. If you do not want to see the window, type as FalseSave name – A name can be given to the image, and if you do not want to save the image, type as falseSkill 6-Search data from the web:From the browser, you can search the required data by sending the user statement (command) to the open_new_tab() function. User: Hi G-One, please search pictures of butterflyThe Voice assistant opens google window and retrieves butterfly pictures from the web. Skill 7- Setting ai assistant to answer geographical and calculation questions: Here we can use a third-party API called Tungsten alpha API to answer metric and geographical questions. It is made possible by Wolfram Language. The client is an instance (class) created for tungsten alpha. The Res variable stores given by tungsten alfa. To access the tungsten alpha API, a unique App ID is required that can be generated by the following ways: Log in to the official side of tungsten alpha and create an account if you do not have one. Image of author2. Sign in with wolfram IDImage by author3. Now you will see the homepage of the site. Go to the account section in the top right where you see your email. Select the My Apps (API) option from the drop-down menu. Image of author4. You will see this following window, now click APP_ID buttonImage of author5. Now you get the following dialog box, give an appropriate name and a description and click the App ID button, an App ID will be generated, and this is a unique ID. Using App ID usage can access the Tungsten alpha API. Photo of authorHuman: Hi G-One , what is the capital of California? G-One Voice assistant: Sacramento, United States of AmericaSkill 8- Additional features: It would be interesting to program your AI assistant to answer the following questions as what it can and who created it, isn't it? Skill 9- To predict weather: Now to program your AI assistant to detect the weather, we need to generate an API key from the Open Weather map. Open Weather Map is an online service that provides weather data. By generating an API ID on the official website, you can use APP_ID to get the voice assistant to detect weather in all places when necessary. The necessary modules needed to be imported for this weather detection are json and request module. The city_name variable takes the command given by man using the takeCommand() function. The Get method of request module returns a response object. And json methods of response object convert json format data to python format. Variable X contains a list of nested dictionaries that check whether the value of 'COD' is 404 or not that is if the city is found or not. The values that temperature and humidity are stored in the main key of variable Y.Human: Hey G-One, I want to get weather dataG-One: What is the city name? Human: Himachal PradeshG-One: The temperature of the kelvin unit is 301.09 , Humidity in percent is 52 and Description is light rain. Separate 10- To sign out of your PC: The Subprocess.call() feature is used here to manage the system feature to log off or shut down your PC. This enables the AI Assistant to turn off your PC automatically. Hurray, we've finally built our own AI voice assistant. Moreover, you can still add more features to the AI voice assistant to perform more task. Image of authorCheck out my GitHub profile for code: Coding !!

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