

Before reading this document i recommend watching this

video:<https://www.youtube.com/watch?v=tJojs0zAuxQ&t=278s> BUT DONT START YET JUST

WATCH IT AND THEN READ TO START WORKING JUST SO YOU KNOW WHAT TO DO BETTER.

1)PYTHON INSTALLATION

Step 1 INSTALL Python with this link:

<https://www.python.org/downloads/release/python-3132/>

When you open the link u scroll down and see this

Files								
Version	Operating System	Description	MD5 Sum	File Size	GPG	Sigstore	SBOM	
Gzipped source tarball	Source release		6192ce4725d9c9fc0e8a1cd38410b417	28.0 MB	SIG	.sigstore	SPDX	
XZ compressed source tarball	Source release		4c2d9202ab4db02c9d0999b14655dfe5	21.6 MB	SIG	.sigstore	SPDX	
macOS 64-bit universal2 installer	macOS	for macOS 10.13 and later	9916903cff14723bdbc41e3ed5530eeb	67.8 MB	SIG	.sigstore		
Windows installer (64-bit)	Windows	Recommended	40d2c830eedee3dd78f4b707f04fd1d2	27.3 MB	SIG	.sigstore	SPDX	
Windows installer (32-bit)	Windows		91941eaa5086d500384cb55ad247be87	26.0 MB	SIG	.sigstore	SPDX	
Windows installer (ARM64)	Windows	Experimental	252c8265c8768e14f7eeee3e1fcc39fc	26.6 MB	SIG	.sigstore	SPDX	
Windows embeddable package (64-bit)	Windows		4c9d083e2d79c07e8d9e5e2d02127980	10.4 MB	SIG	.sigstore	SPDX	
Windows embeddable package (32-bit)	Windows		60bbb372a73146c08702f5513ec2714d	9.2 MB	SIG	.sigstore	SPDX	
Windows embeddable package (ARM64)	Windows		6814e678a029bb545e6fb2472ddc1153	9.7 MB	SIG	.sigstore	SPDX	

You download the 64bit model that is circled with red then you open the installer



install



You press the two check boxes and you HIT THE INSTALL BUTTON
after it installs u hit close

and now u have your python installed

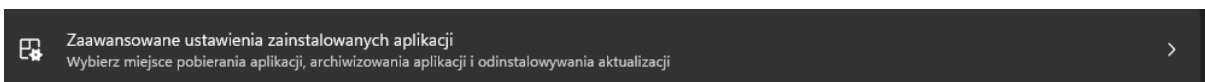
Then you open your command prompt (IN ADMINISTRATOR idk if it works on non admins)

You paste this code: `python -m ensurepip --default-pip pip --version`
IF YOU RECEIVE A version like 24.13 or sum like that it should be working

IF NOT AND RECEIVE THIS ERROR MESSAGE like this:

C:\Windows\System32>python -m ensurepip --default-pip pip --version Python was not found; run without arguments to install from the Microsoft Store, or disable this shortcut from Settings > Apps > Advanced app settings > App execution aliases.

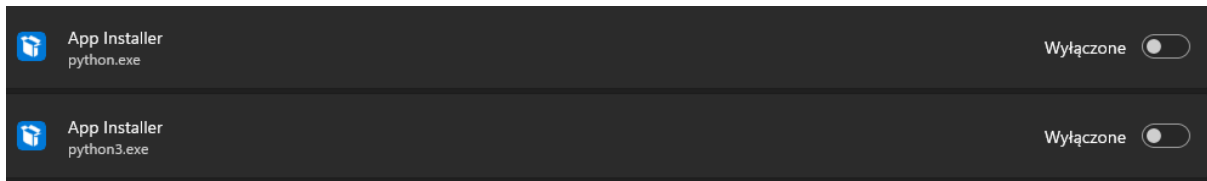
go to your settings  then apps  Aplikacje
advanced application settings



then App execution aliases



scroll down until you find this:



and disable both of them.

and now rerun this command in command prompt: `python -m ensurepip --default-pip pip --version`

and now it should work
if it doesn't contact us in the help channel

2)Vosk model installation

Now it's time to download the vosk model

Open this link: <https://alphacephei.com/vosk/models>

and select the circled version (some people use the 1.8 GB version)

Models

We have two types of models - big and small, small models are ideal for some limited task on mobile applications. They can run on smartphones, Raspberry Pi's. They are also recommended for desktop applications. Small model typically is around 50Mb in size and requires about 300Mb of memory in runtime. Big models are for the high-accuracy transcription on the server. Big models require up to 16Gb in memory since they apply advanced AI algorithms. Ideally you run them on some high-end servers like i7 or latest AMD Ryzen. On AWS you can take a look on c5a machines and similar machines in other clouds.

Most small model allow dynamic vocabulary reconfiguration. Big models are static: the vocabulary can not be modified in runtime.

Model list

This is the list of models compatible with Vosk-API.

To add a new model here create an issue on Github.

Model	Size	Word error rate/Speed	Notes	License
English				
<u>vosk-model-small-on-us-0.15</u>	40M	9.85 (librispeech test-clean) 10.38 (tedlium)	Lightweight: wideband model for Android and RPi	Apache 2.0
vosk-model-en-us-0.22	1.8G	5.69 (librispeech test-clean) 6.05 (tedlium) 29.78 (callcenter)	Accurate generic US English model	Apache 2.0
vosk-model-en-us-0.22-lgraph	128M	7.82 (librispeech) 8.20 (tedlium)	Big US English model with dynamic graph	Apache 2.0
vosk-model-en-us-0.42-gigaspeech	2.3G	5.64 (librispeech test-clean) 6.24 (tedlium) 30.17 (callcenter)	Accurate generic US English model trained by Kaldi on Gigaspeech. Mostly for podcasts, not for telephony	Apache 2.0
English Other		Older Models		

After downloading the zip file u have to extract it and leave it there for later steps.

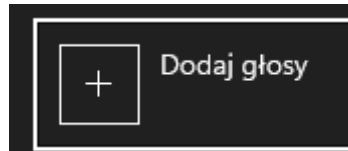
3)Text to speech preparation

So now we're gonna make the text to speech ready

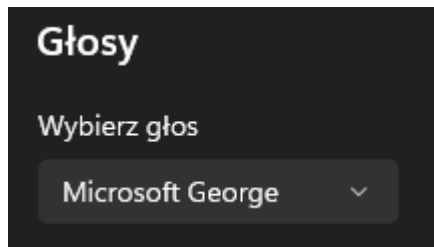


first thing you do is open settings and write: "speech settings" in the search bar

1st check if you already have microsoft george in your text to speech bots if not you



just press add voice and just search for English United kingdom and you download the package afterwards you go to the voices and select Microsoft george



After setting up the text to speech you open command prompt and write these commands:

```
reg copy  
"HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\SPEECH_OneCore\Voices\Tokens"  
"HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\SPEECH\Voices\Tokens" /s /f
```

next command is: `reg query`

```
"HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\SPEECH\Voices\Tokens"
```

and final command is: `pip install audioop-lts`

and now you're done with setting up the text to speech

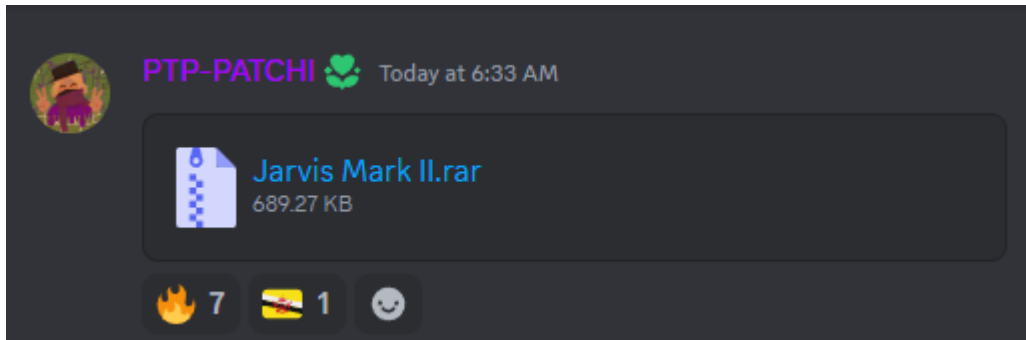
4)OBS installation

<https://www.youtube.com/watch?v=tJojs0zAuxQ&t=278s>

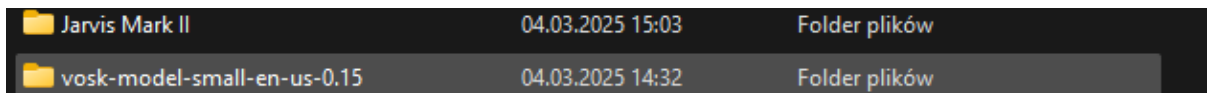
just follow how he did it in the video it's a good explanation

5)Jarvis himself

Now you can finally download the jarvis file in from the discord server in #Jarvis MK2



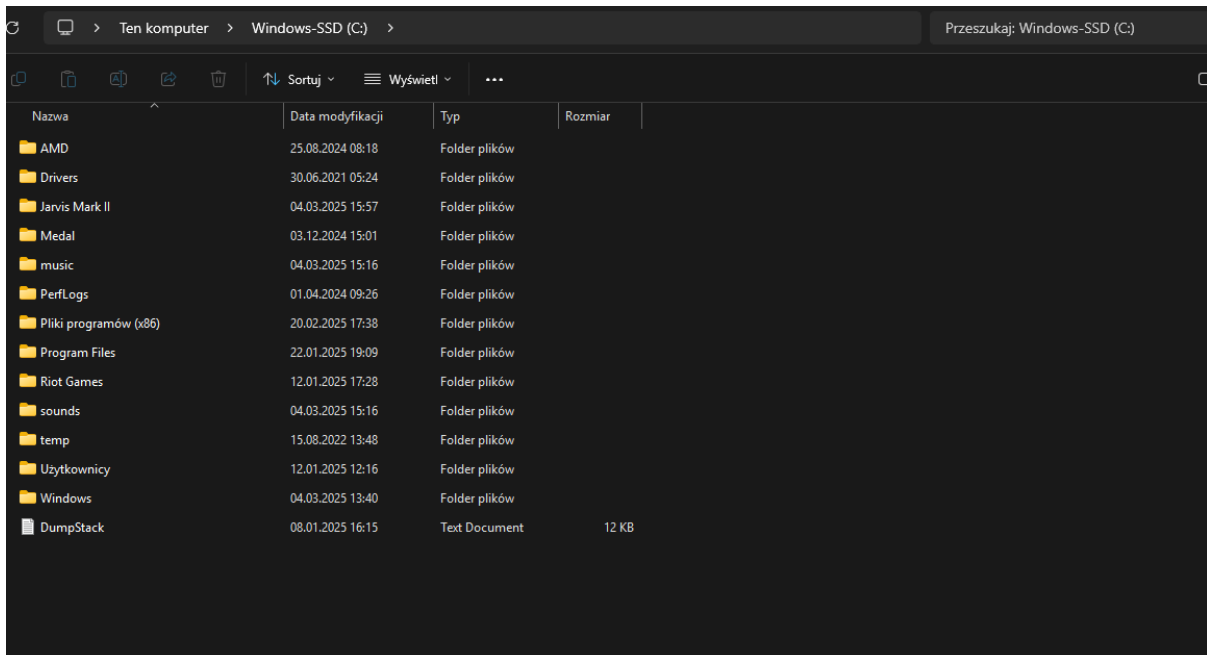
then extract the jarvis zip file



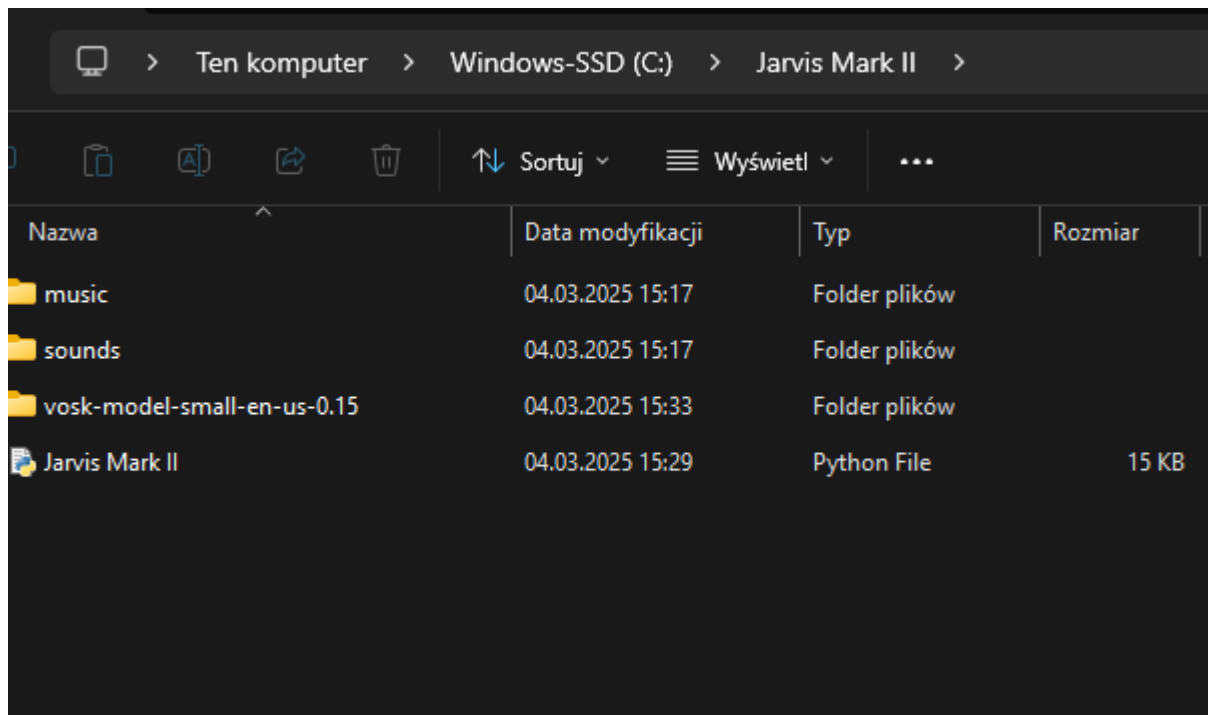
After that step you go and move/copy the vosk model and jarvis to your C:drive



and paste it after opening the c drive



after that you put your vosk folder inside the Jarvis folder and open the folder



Make sure the vosk model is 1 folder not a double folder sometimes that happens then you right click your jarvis python code then press open with> Notepad and open it with notepad

```

#This code is made by Patchi: https://www.youtube.com/@PatchiPup
#Use at your own risk

from vosk import Model, KaldiRecognizer
import pyaudio
import google.generativeai as genai
import pyttsx3
from pynput.keyboard import Key, Controller as KeyController, Listener, KeyCode
from pynput.mouse import Controller as MouseController, Button
import time
import random
import numpy as np
import pyautogui
import re
from obswebsocket import obsws, requests
from pycaw.pycaw import AudioUtilities, IAudioEndpointVolume
from ctypes import CLSCTX_ALL
import threading
import queue
import pygame
import os
from pydub import AudioSegment
from pydub.playback import play
import tempfile

BASE_DIR = r"C:\Jarvis Mark II" #The directory where you have Jarvis installed

```

notepad is this and you can see your code
Inside the code you need to change a few things

```

BASE_DIR = r"C:\Jarvis Mark II" #The directory where you have Jarvis installed
API_KEY = "Api Key Here" # Your Google Gemini API Key
VOSK_MODEL_PATH = os.path.join(BASE_DIR, "voskmodelname") #Your Vosk Model Name here
VOICE_KEY = "HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Speech\Voices\Tokens\MSTTS_V110_enGB_GeorgeM" #Change this
OBS_HOST = "localhost" #Leave this as is
OBS_PORT = 4455 #Your OBS Web-Socket Port
OBS_PASSWORD = "Password" #Your OBS Web-Socket Password

```

scroll until you see these things of your code

And write your vosk model name aka your name of the vosk folder
you change the OBS password if you did the obs setup
You also need to write your API key in the code
just read the code its pretty simple

How do i get an API code you ask

to get an api code you go to this website: <https://aistudio.google.com/app/apikey>

If you can't get an api key try a different browser if it still doesn't work ask someone u can trust to send you an api key if they have access because some people are unable to get an api key.

After doing all those changes in your code PLEASE SAVE YOUR CHANGES
PEOPLE KEEP FORGETTING IT.

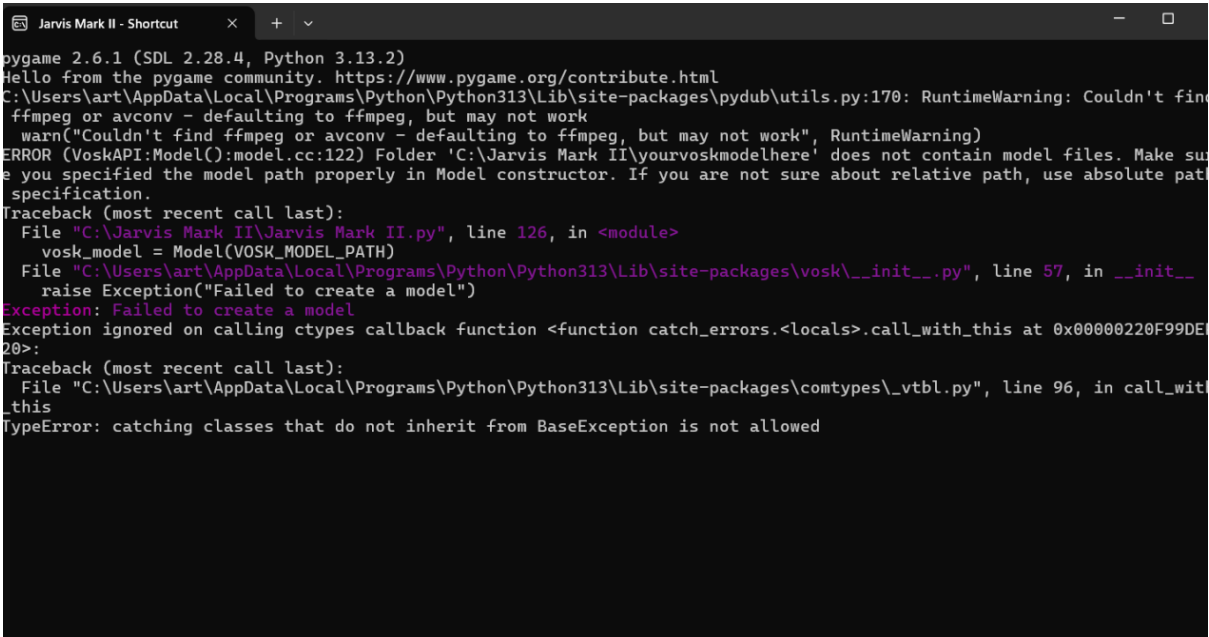
how to save is  then  close the notepad with the saved changes.

And now your code should be all ready if you want to make a shortcut just watch the video <https://www.youtube.com/watch?v=tJojs0zAuxQ&t=278s>

scroll down to see the errors and how to fix

ERRORS AND HOW TO FIX

1)File location error (very common)



```
pygame 2.6.1 (SDL 2.28.4, Python 3.13.2)
Hello from the pygame community. https://www.pygame.org/contribute.html
C:\Users\art\AppData\Local\Programs\Python\Python313\Lib\site-packages\pydub\utils.py:170: RuntimeWarning: Couldn't find
ffmpeg or avconv - defaulting to ffmpeg, but may not work
  warn("Couldn't find ffmpeg or avconv - defaulting to ffmpeg, but may not work", RuntimeWarning)
ERROR (VoskAPI:Model():model.cc:122) Folder 'C:\Jarvis Mark II\yourvoskmodelhere' does not contain model files. Make sure
e you specified the model path properly in Model constructor. If you are not sure about relative path, use absolute path
specification.
Traceback (most recent call last):
  File "C:\Jarvis Mark II\Jarvis Mark II.py", line 126, in <module>
    vosk_model = Model(VOSK_MODEL_PATH)
  File "C:\Users\art\AppData\Local\Programs\Python\Python313\Lib\site-packages\vosk\__init__.py", line 57, in __init__
    raise Exception("Failed to create a model")
Exception: Failed to create a model
Exception ignored on calling ctypes callback function <function catch_errors.<locals>.call_with_this at 0x00000220F99DE
20>:
Traceback (most recent call last):
  File "C:\Users\art\AppData\Local\Programs\Python\Python313\Lib\site-packages\comtypes\vtbl.py", line 96, in call_wit
    _this
TypeError: catching classes that do not inherit from BaseException is not allowed
```

This error happens if one of your files/folders are misplaced

To fix this:

- Check if your Jarvis MK2 folder is in your C:/DRIVE
- Check if there's any double folders
- Check if your code was saved maybe u forgot

2) Audioloop error

run the audio loop command:

```
pip install audiopool-ts
```

```
Jarvis Mark II - Acceso directo
KeyError: None

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "C:\Jarvis Mark II\Jarvis Mark II.py", line 39, in <module>
    engine = pyttsx3.init()
  File "C:\Users\Extacy\AppData\Local\Programs\Python\Python313\Lib\site-packages\pyttsx3\__init__.py", line 22, in init
    eng = Engine(driverName, debug)
  File "C:\Users\Extacy\AppData\Local\Programs\Python\Python313\Lib\site-packages\pyttsx3\engine.py", line 30, in __init
    self.proxy = driver.DriverProxy(weakref.proxy(self), driverName, debug)
    ~~~~~^~~~~~
  File "C:\Users\Extacy\AppData\Local\Programs\Python\Python313\Lib\site-packages\pyttsx3\driver.py", line 52, in __init
    self._driver = self._module.buildDriver(weakref.proxy(self))
    ~~~~~^~~~~~
  File "C:\Users\Extacy\AppData\Local\Programs\Python\Python313\Lib\site-packages\pyttsx3\drivers\sapi5.py", line 37, in buildDriver
    return SAPI5Driver(proxy)
  File "C:\Users\Extacy\AppData\Local\Programs\Python\Python313\Lib\site-packages\pyttsx3\drivers\sapi5.py", line 56, in __init
    self.setProperty('voice', self.getProperty('voice'))
    ~~~~~^~~~~~
  File "C:\Users\Extacy\AppData\Local\Programs\Python\Python313\Lib\site-packages\pyttsx3\drivers\sapi5.py", line 104, in getProperty
    return self._tts.Voice.Id
    ~~~~~^~~~~~
_ctypes.COMError: (-2147221164, 'Clase no registrada', ('Clase no registrada\r\n', None, None, 0, None))
```