Exploring Machine Learning and Sentiment Analysis

2024 MYP Personal Project Report

Jerry (Jiarui) Hu

January 28, 2024

IB MYP Personal Project

Works Cited

Ali, Javed. *Javedali99/Audio-to-Text-Transcription*. 2023. 29 Jan. 2024. *GitHub*, https://github.com/javedali99/audio-to-text-transcription.

Base64 Encoding: What Sysadmins Need to Know | Enable Sysadmin.

https://www.redhat.com/sysadmin/base64-encoding. Accessed 25 Jan. 2024.

ChatGPT. https://chat.openai.com. Accessed 12 Feb. 2024.

"Exploring Machine Learning and Sentiment Analysis." *Google Docs*,

https://docs.google.com/forms/d/e/1FAIpQLSdLm9m7XkACz1Vvy1iqLAGdcidTnCRiKw

mQzbY2KXqdgu6v4Q/viewform?usp=embed_facebook. Accessed 31 Mar. 2024.

Get Started with Cloud Firestore | Firebase.

https://firebase.google.com/docs/firestore/quickstart. Accessed 25 Jan. 2024.

GitHub Pages | Websites for You and Your Projects, Hosted Directly from Your GitHub Repository. Just Edit, Push, and Your Changes Are Live. https://pages.github.com/. Accessed 25 Jan. 2024.

Hand Detection in Python Using OpenCV and MediaPipe | by Lvimuth | Medium.

https://lvimuth.medium.com/hand-detection-in-python-using-opencv-and-mediapipe-30c7b54f5ff4. Accessed 30 Jan. 2024.

How to Transcribe Audio to Text Using Python for Free? | by Hey, Let's Learn Something | Geek Culture | Medium. https://medium.com/geekculture/how-to-transcribe-audio-to-text-using-python-for-free-1b2c3eae455e. Accessed 30 Jan. 2024.

Hugging Face – The AI Community Building the Future. 28 Mar. 2024, https://huggingface.co/.

MYP Personal Project - Exploring Machine Learning and Sentiment Analysis (Responses) - Google Sheets.

https://docs.google.com/spreadsheets/d/1fMuamfwDUHcg7ueyIS8yeNlT8Ql4fSdG6nMucn 3s4gw/edit?resourcekey&usp=forms_web_b#gid=1856271869. Accessed 31 Mar. 2024.

"Notion – The All-in-One Workspace for Your Notes, Tasks, Wikis, and Databases." *Notion*, https://www.notion.so. Accessed 31 Mar. 2024.

Oauth 2.0 - Sending Email via Gmail & Python - Stack Overflow.

https://stackoverflow.com/questions/37201250/sending-email-via-gmail-python. Accessed 25 Jan. 2024.

OpenAI Platform. https://platform.openai.com. Accessed 25 Jan. 2024.

---. https://platform.openai.com. Accessed 25 Jan. 2024.

Path - How to Successfully Transcribe Audio Files Using Whisper for OpenAI in Python? - Stack Overflow. https://stackoverflow.com/questions/76366387/how-to-successfully-transcribe-audio-files-using-whisper-for-openai-in-python. Accessed 30 Jan. 2024.

PyAutoGUI · PyPI. https://pypi.org/project/PyAutoGUI/. Accessed 30 Jan. 2024.

Python 2.7 - Opency: Detect Mouse Position Clicking over a Picture - Stack Overflow.

https://stackoverflow.com/questions/28327020/opency-detect-mouse-position-clicking-over-a-picture. Accessed 30 Jan. 2024.

Python Quickstart | Gmail | Google for Developers.

https://developers.google.com/gmail/api/quickstart/python. Accessed 25 Jan. 2024.

Python-Hand-Tracking · GitHub Topics. https://github.com/topics/python-hand-tracking.

Accessed 30 Jan. 2024.

Quickstart for GitHub Pages - GitHub Docs. https://docs.github.com/en/pages/quickstart.

Accessed 25 Jan. 2024.

Real-Time Transcription in Python. https://www.assemblyai.com/blog/real-time-transcription-in-python/. Accessed 30 Jan. 2024.

Right and Left Hand Detection Using Python - GeeksforGeeks.

https://www.geeksforgeeks.org/right-and-left-hand-detection-using-python/. Accessed 30 Jan. 2024.

Robert, James. Jiaaro/Pydub. 2011. 24 Jan. 2024. GitHub, https://github.com/jiaaro/pydub.

Templates — Flask Documentation (3.0.x). https://flask.palletsprojects.com/en/3.0.x/templating/.

Accessed 25 Jan. 2024.

Text Generation - OpenAI API. https://platform.openai.com/docs/guides/text-generation/chat-completions-api. Accessed 25 Jan. 2024.

Transcribe Audio - Python Tutorial. https://pythonbasics.org/transcribe-audio/. Accessed 30 Jan. 2024.

Transcribe Audio Files in 10 Lines of Python Code | by Avi Chawla | Better Programming.

https://betterprogramming.pub/transcribe-audio-files-in-10-lines-of-code-1d92fb05a0f.

Accessed 30 Jan. 2024.

Transcribing Audio in Python Using Vosk | by Alexander Fiori | Medium.

https://medium.com/@afiori_78621/transcribing-audio-in-python-using-vosk-def7487a8719. Accessed 30 Jan. 2024.

Welcome to Flask — Flask Documentation (3.0.x). https://flask.palletsprojects.com/en/3.0.x/.

Accessed 25 Jan. 2024.

 $We lcome \ to \ Py Auto GUI's \ Documentation! - Py Auto GUI \ Documentation.$

https://pyautogui.readthedocs.io/en/latest/. Accessed 30 Jan. 2024.